

Appendix

Table 3

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REMARK coordinates from minimization refinement
REMARK refinement resolution: 100.0 - 3.2 A
REMARK starting r= 0.3631 free_r= 0.4208
REMARK final      r= 0.3466 free_r= 0.4154
REMARK rmsd bonds= 0.009443  rmsd angles=  1.93913
REMARK wa= 16.2281
REMARK target= mlf cycles= 1 steps= 250
REMARK sg= P4(1)2(1)2 a= 200.76 b= 200.76 c= 292.938 alpha= 90 beta= 90 gamma= 90
REMARK parameter file 1 : CNS_TOPPAR:protein_rep.param
REMARK parameter file 2 : CNS_TOPPAR:ion.param
REMARK molecular structure file: ../pdb/rnap_m3_gen.mtf
REMARK input coordinates: ../bgroup/bg1.pdb
REMARK reflection file= ../fobs/scale_b25.cv
REMARK ncs= restrain ncs file= ../ncs100.def
REMARK B-correction resolution: 8.0 - 3.2
REMARK initial B-factor correction applied to f_scale :
REMARK B11= 0.112 B22= 0.112 B33= -0.224
REMARK B12= 0.000 B13= 0.000 B23= 0.000
REMARK B-factor correction applied to coordinate array B: 0.067
REMARK bulk solvent: density level= 0.315481 e/A^3, B-factor= 300 A^2
REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range: 98907 ( 100.0 % )
REMARK number of unobserved reflections (no entry or |F|=0): 5201 ( 5.3 % )
REMARK number of reflections rejected: 0 ( 0.0 % )
REMARK total number of reflections used: 93706 ( 94.7 % )
REMARK number of reflections in working set: 88974 ( 90.0 % )
REMARK number of reflections in test set: 4732 ( 4.8 % )
CRYST1 200.760 200.760 292.938 90.00 90.00 90.00 P 41 21 2
REMARK FILENAME="min1_100-3.2.pdb"
REMARK VERSION=0.4a
ATOM      1  CB  ALA  A   6           1.632  67.447  73.985  1.00 51.08      A
ATOM      2  C   ALA  A   6           1.498  65.047  73.318  1.00100.07      A
ATOM      3  O   ALA  A   6           2.714  64.811  73.324  1.00100.07      A
ATOM      4  N   ALA  A   6           1.065  65.705  75.679  1.00100.07      A
ATOM      5  CA  ALA  A   6           0.907  66.105  74.245  1.00100.07      A
ATOM      6  N   ALA  A   7           0.639  64.425  72.515  1.00 85.24      A
ATOM      7  CA  ALA  A   7           1.075  63.413  71.564  1.00 85.24      A
ATOM      8  CB  ALA  A   7           1.051  62.030  72.216  1.00 14.75      A
ATOM      9  C   ALA  A   7           0.130  63.450  70.380  1.00 85.24      A
ATOM     10  O   ALA  A   7          -0.677  64.368  70.252  1.00 85.24      A
ATOM     11  N   ALA  A   8           0.242  62.448  69.519  1.00100.07      A
ATOM     12  CA  ALA  A   8          -0.605  62.342  68.340  1.00100.07      A
ATOM     13  CB  ALA  A   8          -1.848  61.513  68.673  1.00100.07      A
ATOM     14  C   ALA  A   8          -1.025  63.704  67.786  1.00100.07      A
ATOM     15  O   ALA  A   8          -2.031  64.276  68.207  1.00100.07      A
ATOM     16  N   PRO  A   9          -0.248  64.248  66.841  1.00 56.97      A
ATOM     17  CD  PRO  A   9           1.082  63.783  66.416  1.00100.07      A
ATOM     18  CA  PRO  A   9          -0.561  65.545  66.236  1.00 56.97      A
ATOM     19  CB  PRO  A   9           0.774  65.969  65.640  1.00100.07      A
ATOM     20  CG  PRO  A   9           1.355  64.665  65.227  1.00100.07      A
ATOM     21  C   PRO  A   9          -1.661  65.430  65.188  1.00 56.97      A
ATOM     22  O   PRO  A   9          -2.702  64.838  65.445  1.00 56.97      A
ATOM     23  N   VAL  A  10          -1.419  65.997  64.011  1.00 83.69      A
ATOM     24  CA  VAL  A  10          -2.377  65.972  62.907  1.00 83.69      A
ATOM     25  CB  VAL  A  10          -3.291  67.218  62.930  1.00 46.48      A
ATOM     26  CG1 VAL  A  10          -4.123  67.287  61.657  1.00 46.48      A
ATOM     27  CG2 VAL  A  10          -4.196  67.180  64.147  1.00 46.48      A
ATOM     28  C   VAL  A  10          -1.555  66.004  61.625  1.00 83.69      A
ATOM     29  O   VAL  A  10          -0.401  66.437  61.637  1.00 83.69      A
ATOM     30  N   PHE  A  11          -2.129  65.546  60.519  1.00 35.63      A
ATOM     31  CA  PHE  A  11          -1.393  65.576  59.273  1.00 35.63      A
ATOM     32  CB  PHE  A  11          -0.988  64.172  58.831  1.00100.07      A
ATOM     33  CG  PHE  A  11           0.221  64.162  57.943  1.00100.07      A
ATOM     34  CD1 PHE  A  11           1.403  64.764  58.368  1.00100.07      A
ATOM     35  CD2 PHE  A  11           0.178  63.597  56.674  1.00100.07      A
ATOM     36  CE1 PHE  A  11           2.521  64.808  57.545  1.00100.07      A
ATOM     37  CE2 PHE  A  11           1.297  63.635  55.838  1.00100.07      A
ATOM     38  CZ  PHE  A  11           2.470  64.244  56.277  1.00100.07      A
ATOM     39  C   PHE  A  11          -2.180  66.268  58.168  1.00 35.63      A
ATOM     40  O   PHE  A  11          -2.207  65.819  57.012  1.00 35.63      A
ATOM     41  N   THR  A  12          -2.821  67.371  58.546  1.00 60.55      A
ATOM     42  CA  THR  A  12          -3.590  68.189  57.615  1.00 60.55      A
ATOM     43  CB  THR  A  12          -3.781  69.612  58.175  1.00100.07      A
ATOM     44  OG1 THR  A  12          -4.149  69.541  59.557  1.00100.07      A
ATOM     45  CG2 THR  A  12          -4.858  70.350  57.402  1.00100.07      A
ATOM     46  C   THR  A  12          -2.728  68.294  56.363  1.00 60.55      A

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ATOM	47	O	THR	A	12	-1.609	68.785	56.430	1.00	60.55	A
ATOM	48	N	ALA	A	13	-3.227	67.855	55.218	1.00	47.73	A
ATOM	49	CA	ALA	A	13	-2.390	67.910	54.029	1.00	47.73	A
ATOM	50	CB	ALA	A	13	-1.906	66.489	53.705	1.00	36.60	A
ATOM	51	C	ALA	A	13	-2.941	68.571	52.760	1.00	47.73	A
ATOM	52	O	ALA	A	13	-2.799	68.003	51.683	1.00	47.73	A
ATOM	53	N	THR	A	14	-3.530	69.764	52.861	1.00	59.31	A
ATOM	54	CA	THR	A	14	-4.067	70.450	51.671	1.00	59.31	A
ATOM	55	CB	THR	A	14	-4.181	72.005	51.888	1.00	61.51	A
ATOM	56	OG1	THR	A	14	-5.094	72.296	52.959	1.00	61.51	A
ATOM	57	CG2	THR	A	14	-4.686	72.684	50.617	1.00	61.51	A
ATOM	58	C	THR	A	14	-3.168	70.184	50.447	1.00	59.31	A
ATOM	59	O	THR	A	14	-2.124	70.818	50.290	1.00	59.31	A
ATOM	60	N	THR	A	15	-3.586	69.255	49.582	1.00	99.60	A
ATOM	61	CA	THR	A	15	-2.809	68.870	48.396	1.00	99.60	A
ATOM	62	CB	THR	A	15	-3.093	67.393	47.999	1.00	63.08	A
ATOM	63	OG1	THR	A	15	-2.281	67.041	46.875	1.00	63.08	A
ATOM	64	CG2	THR	A	15	-4.566	67.188	47.645	1.00	63.08	A
ATOM	65	C	THR	A	15	-2.928	69.749	47.139	1.00	99.60	A
ATOM	66	O	THR	A	15	-2.776	70.970	47.200	1.00	99.60	A
ATOM	67	N	GLN	A	16	-3.187	69.120	45.997	1.00	86.73	A
ATOM	68	CA	GLN	A	16	-3.299	69.833	44.733	1.00	86.73	A
ATOM	69	CB	GLN	A	16	-2.026	70.664	44.527	1.00	99.43	A
ATOM	70	CG	GLN	A	16	-1.992	71.545	43.289	1.00	99.43	A
ATOM	71	CD	GLN	A	16	-3.015	72.660	43.323	1.00	99.43	A
ATOM	72	OE1	GLN	A	16	-3.247	73.270	44.366	1.00	99.43	A
ATOM	73	NE2	GLN	A	16	-3.620	72.946	42.173	1.00	99.43	A
ATOM	74	C	GLN	A	16	-3.471	68.828	43.580	1.00	86.73	A
ATOM	75	O	GLN	A	16	-4.194	67.831	43.700	1.00	86.73	A
ATOM	76	N	GLY	A	17	-2.807	69.100	42.462	1.00	100.07	A
ATOM	77	CA	GLY	A	17	-2.882	68.214	41.319	1.00	100.07	A
ATOM	78	C	GLY	A	17	-1.503	67.656	41.035	1.00	100.07	A
ATOM	79	O	GLY	A	17	-1.334	66.592	40.433	1.00	100.07	A
ATOM	80	N	ASP	A	18	-0.506	68.399	41.487	1.00	44.89	A
ATOM	81	CA	ASP	A	18	0.888	68.039	41.305	1.00	44.89	A
ATOM	82	CB	ASP	A	18	1.133	67.484	39.902	1.00	100.07	A
ATOM	83	CG	ASP	A	18	0.675	68.439	38.815	1.00	100.07	A
ATOM	84	OD1	ASP	A	18	-0.544	68.692	38.724	1.00	100.07	A
ATOM	85	OD2	ASP	A	18	1.532	68.945	38.054	1.00	100.07	A
ATOM	86	C	ASP	A	18	1.577	69.383	41.457	1.00	44.89	A
ATOM	87	O	ASP	A	18	2.127	69.939	40.507	1.00	44.89	A
ATOM	88	N	HIS	A	19	1.502	69.919	42.667	1.00	68.86	A
ATOM	89	CA	HIS	A	19	2.119	71.197	42.969	1.00	68.86	A
ATOM	90	CB	HIS	A	19	1.223	72.365	42.553	1.00	74.00	A
ATOM	91	CG	HIS	A	19	0.752	72.307	41.141	1.00	74.00	A
ATOM	92	CD2	HIS	A	19	-0.494	72.351	40.616	1.00	74.00	A
ATOM	93	ND1	HIS	A	19	1.617	72.232	40.074	1.00	74.00	A
ATOM	94	CE1	HIS	A	19	0.924	72.234	38.950	1.00	74.00	A
ATOM	95	NE2	HIS	A	19	-0.360	72.307	39.252	1.00	74.00	A
ATOM	96	C	HIS	A	19	2.316	71.310	44.460	1.00	68.86	A
ATOM	97	O	HIS	A	19	2.633	70.332	45.121	1.00	68.86	A
ATOM	98	N	TYR	A	20	2.085	72.516	44.976	1.00	99.95	A
ATOM	99	CA	TYR	A	20	2.253	72.802	46.387	1.00	99.95	A
ATOM	100	CB	TYR	A	20	1.078	73.590	46.935	1.00	74.92	A
ATOM	101	CG	TYR	A	20	1.149	75.062	46.652	1.00	74.92	A
ATOM	102	CD1	TYR	A	20	0.943	75.554	45.359	1.00	74.92	A
ATOM	103	CE1	TYR	A	20	0.938	76.932	45.100	1.00	74.92	A
ATOM	104	CD2	TYR	A	20	1.366	75.980	47.686	1.00	74.92	A
ATOM	105	CE2	TYR	A	20	1.366	77.357	47.442	1.00	74.92	A
ATOM	106	CZ	TYR	A	20	1.147	77.826	46.148	1.00	74.92	A
ATOM	107	OH	TYR	A	20	1.103	79.180	45.901	1.00	74.92	A
ATOM	108	C	TYR	A	20	2.419	71.555	47.216	1.00	99.95	A
ATOM	109	O	TYR	A	20	3.529	71.051	47.384	1.00	99.95	A
ATOM	110	N	GLY	A	21	1.315	71.037	47.726	1.00	45.46	A
ATOM	111	CA	GLY	A	21	1.427	69.850	48.542	1.00	45.46	A
ATOM	112	C	GLY	A	21	1.726	70.270	49.963	1.00	45.46	A
ATOM	113	O	GLY	A	21	2.474	69.612	50.678	1.00	45.46	A
ATOM	114	N	GLU	A	22	1.159	71.398	50.368	1.00	35.21	A
ATOM	115	CA	GLU	A	22	1.366	71.868	51.722	1.00	35.21	A
ATOM	116	CB	GLU	A	22	0.490	73.088	51.988	1.00	81.30	A
ATOM	117	CG	GLU	A	22	0.755	74.249	51.052	1.00	81.30	A
ATOM	118	CD	GLU	A	22	-0.177	75.412	51.313	1.00	81.30	A
ATOM	119	OE1	GLU	A	22	-0.505	75.638	52.497	1.00	81.30	A
ATOM	120	OE2	GLU	A	22	-0.572	76.106	50.348	1.00	81.30	A
ATOM	121	C	GLU	A	22	0.996	70.726	52.675	1.00	35.21	A
ATOM	122	O	GLU	A	22	-0.143	70.283	52.696	1.00	35.21	A
ATOM	123	N	PHE	A	23	1.941	70.213	53.443	1.00	32.98	A
ATOM	124	CA	PHE	A	23	1.585	69.147	54.359	1.00	32.98	A
ATOM	125	CB	PHE	A	23	2.382	67.904	54.023	1.00	49.28	A
ATOM	126	CG	PHE	A	23	2.300	67.536	52.591	1.00	49.28	A
ATOM	127	CD1	PHE	A	23	1.085	67.579	51.927	1.00	49.28	A
ATOM	128	CD2	PHE	A	23	3.426	67.159	51.887	1.00	49.28	A
ATOM	129	CE1	PHE	A	23	0.989	67.251	50.559	1.00	49.28	A
ATOM	130	CE2	PHE	A	23	3.347	66.826	50.517	1.00	49.28	A

ATOM	131	CZ	PHE	A	23	2.125	66.873	49.855	1.00	49.28	A
ATOM	132	C	PHE	A	23	1.849	69.610	55.775	1.00	32.98	A
ATOM	133	O	PHE	A	23	2.958	70.018	56.105	1.00	32.98	A
ATOM	134	N	VAL	A	24	0.828	69.552	56.621	1.00	100.03	A
ATOM	135	CA	VAL	A	24	0.982	70.049	57.979	1.00	100.03	A
ATOM	136	CB	VAL	A	24	0.010	71.190	58.264	1.00	18.08	A
ATOM	137	CG1	VAL	A	24	0.513	71.953	59.436	1.00	18.08	A
ATOM	138	CG2	VAL	A	24	-0.153	72.093	57.043	1.00	18.08	A
ATOM	139	C	VAL	A	24	0.837	69.105	59.154	1.00	100.03	A
ATOM	140	O	VAL	A	24	-0.154	68.389	59.289	1.00	100.03	A
ATOM	141	N	LEU	A	25	1.835	69.141	60.024	1.00	70.43	A
ATOM	142	CA	LEU	A	25	1.806	68.359	61.240	1.00	70.43	A
ATOM	143	CB	LEU	A	25	3.193	68.286	61.851	1.00	75.51	A
ATOM	144	CG	LEU	A	25	3.742	66.876	61.936	1.00	75.51	A
ATOM	145	CD1	LEU	A	25	5.146	66.912	62.490	1.00	75.51	A
ATOM	146	CD2	LEU	A	25	2.845	66.056	62.820	1.00	75.51	A
ATOM	147	C	LEU	A	25	0.932	69.269	62.076	1.00	70.43	A
ATOM	148	O	LEU	A	25	-0.045	69.820	61.566	1.00	70.43	A
ATOM	149	N	GLU	A	26	1.281	69.459	63.343	1.00	100.07	A
ATOM	150	CA	GLU	A	26	0.486	70.341	64.188	1.00	100.07	A
ATOM	151	CB	GLU	A	26	-0.931	69.788	64.324	1.00	33.20	A
ATOM	152	CG	GLU	A	26	-1.963	70.760	63.848	1.00	33.20	A
ATOM	153	CD	GLU	A	26	-1.722	72.117	64.439	1.00	33.20	A
ATOM	154	OE1	GLU	A	26	-1.411	72.153	65.653	1.00	33.20	A
ATOM	155	OE2	GLU	A	26	-1.840	73.128	63.701	1.00	33.20	A
ATOM	156	C	GLU	A	26	1.131	70.604	65.551	1.00	100.07	A
ATOM	157	O	GLU	A	26	2.210	71.194	65.606	1.00	100.07	A
ATOM	158	N	PRO	A	27	0.503	70.181	66.666	1.00	46.06	A
ATOM	159	CD	PRO	A	27	-0.442	69.092	66.971	1.00	30.49	A
ATOM	160	CA	PRO	A	27	1.258	70.517	67.871	1.00	46.06	A
ATOM	161	CB	PRO	A	27	0.380	69.974	68.972	1.00	30.49	A
ATOM	162	CG	PRO	A	27	-0.016	68.670	68.386	1.00	30.49	A
ATOM	163	C	PRO	A	27	2.581	69.773	67.809	1.00	46.06	A
ATOM	164	O	PRO	A	27	2.652	68.650	67.307	1.00	46.06	A
ATOM	165	N	LEU	A	28	3.624	70.401	68.326	1.00	100.07	A
ATOM	166	CA	LEU	A	28	4.946	69.802	68.322	1.00	100.07	A
ATOM	167	CB	LEU	A	28	5.558	69.950	66.921	1.00	56.66	A
ATOM	168	CG	LEU	A	28	4.960	69.040	65.843	1.00	56.66	A
ATOM	169	CD1	LEU	A	28	5.190	69.595	64.443	1.00	56.66	A
ATOM	170	CD2	LEU	A	28	5.575	67.660	66.011	1.00	56.66	A
ATOM	171	C	LEU	A	28	5.761	70.556	69.364	1.00	100.07	A

ATOM	215	CG1	VAL	A	34	12.679	74.928	62.857	1.00	70.76	A
ATOM	216	CG2	VAL	A	34	13.962	73.349	64.280	1.00	70.76	A
ATOM	217	C	VAL	A	34	13.356	71.201	62.560	1.00	71.93	A
ATOM	218	O	VAL	A	34	13.984	70.771	61.596	1.00	71.93	A
ATOM	219	N	THR	A	35	13.328	70.584	63.737	1.00	58.19	A
ATOM	220	CA	THR	A	35	14.040	69.329	63.952	1.00	58.19	A
ATOM	221	CB	THR	A	35	13.727	68.750	65.344	1.00	96.03	A
ATOM	222	OG1	THR	A	35	14.468	69.479	66.330	1.00	96.03	A
ATOM	223	CG2	THR	A	35	14.097	67.278	65.416	1.00	96.03	A
ATOM	224	C	THR	A	35	13.690	68.295	62.881	1.00	58.19	A
ATOM	225	O	THR	A	35	14.418	67.317	62.682	1.00	58.19	A
ATOM	226	N	LEU	A	36	12.580	68.509	62.183	1.00	45.88	A
ATOM	227	CA	LEU	A	36	12.201	67.580	61.134	1.00	45.88	A
ATOM	228	CB	LEU	A	36	11.105	66.616	61.617	1.00	72.17	A
ATOM	229	CG	LEU	A	36	9.905	67.087	62.438	1.00	72.17	A
ATOM	230	CD1	LEU	A	36	8.883	65.962	62.562	1.00	72.17	A
ATOM	231	CD2	LEU	A	36	10.379	67.502	63.809	1.00	72.17	A
ATOM	232	C	LEU	A	36	11.793	68.227	59.820	1.00	45.88	A
ATOM	233	O	LEU	A	36	12.138	67.725	58.752	1.00	45.88	A
ATOM	234	N	GLY	A	37	11.077	69.342	59.888	1.00	100.07	A
ATOM	235	CA	GLY	A	37	10.649	69.998	58.666	1.00	100.07	A
ATOM	236	C	GLY	A	37	11.797	70.359	57.744	1.00	100.07	A
ATOM	237	O	GLY	A	37	11.598	70.576	56.549	1.00	100.07	A
ATOM	238	N	ASN	A	38	13.006	70.411	58.289	1.00	62.51	A
ATOM	239	CA	ASN	A	38	14.175	70.767	57.495	1.00	62.51	A
ATOM	240	CB	ASN	A	38	15.222	71.433	58.389	1.00	44.82	A
ATOM	241	CG	ASN	A	38	16.323	72.078	57.600	1.00	44.82	A
ATOM	242	OD1	ASN	A	38	17.140	71.392	57.002	1.00	44.82	A
ATOM	243	ND2	ASN	A	38	16.345	73.410	57.582	1.00	44.82	A
ATOM	244	C	ASN	A	38	14.810	69.612	56.715	1.00	62.51	A
ATOM	245	O	ASN	A	38	14.766	69.608	55.485	1.00	62.51	A
ATOM	246	N	PRO	A	39	15.403	68.618	57.413	1.00	32.75	A
ATOM	247	CD	PRO	A	39	15.306	68.316	58.852	1.00	32.40	A
ATOM	248	CA	PRO	A	39	16.025	67.496	56.706	1.00	32.75	A
ATOM	249	CB	PRO	A	39	16.090	66.408	57.768	1.00	32.40	A
ATOM	250	CG	PRO	A	39	16.281	67.167	59.007	1.00	32.40	A
ATOM	251	C	PRO	A	39	15.153	67.093	55.542	1.00	32.75	A
ATOM	252	O	PRO	A	39	15.644	66.776	54.456	1.00	32.75	A
ATOM	253	N	LEU	A	40	13.845	67.112	55.776	1.00	61.43	A
ATOM	254	CA	LEU	A	40	12.903	66.745	54.733	1.00	61.43	A
ATOM	255	CB	LEU	A	40	11.464	67.042	55.183	1.00	62.67	A
ATOM	256	CG	LEU	A	40	11.008	66.513	56.555	1.00	62.67	A
ATOM	257	CD1	LEU	A	40	9.508	66.718	56.683	1.00	62.67	A
ATOM	258	CD2	LEU	A	40	11.345	65.039	56.723	1.00	62.67	A
ATOM	259	C	LEU	A	40	13.283	67.576	53.514	1.00	61.43	A
ATOM	260	O	LEU	A	40	13.648	67.027	52.472	1.00	61.43	A
ATOM	261	N	ALA	A	41	13.235	68.899	53.674	1.00	76.41	A
ATOM	262	CA	ALA	A	41	13.570	69.831	52.598	1.00	76.41	A
ATOM	263	CB	ALA	A	41	13.664	71.271	53.135	1.00	17.66	A
ATOM	264	C	ALA	A	41	14.888	69.424	51.965	1.00	76.41	A
ATOM	265	O	ALA	A	41	14.999	69.288	50.743	1.00	76.41	A
ATOM	266	N	ARG	A	42	15.891	69.241	52.811	1.00	55.18	A
ATOM	267	CA	ARG	A	42	17.195	68.835	52.331	1.00	55.18	A
ATOM	268	CB	ARG	A	42	18.081	68.423	53.505	1.00	50.68	A
ATOM	269	CG	ARG	A	42	18.327	69.551	54.476	1.00	50.68	A
ATOM	270	CD	ARG	A	42	19.592	70.268	54.136	1.00	50.68	A
ATOM	271	NE	ARG	A	42	20.706	69.661	54.843	1.00	50.68	A
ATOM	272	CZ	ARG	A	42	21.938	69.590	54.361	1.00	50.68	A
ATOM	273	NH1	ARG	A	42	22.213	70.085	53.156	1.00	50.68	A
ATOM	274	NH2	ARG	A	42	22.895	69.034	55.095	1.00	50.68	A
ATOM	275	C	ARG	A	42	16.918	67.642	51.432	1.00	55.18	A
ATOM	276	O	ARG	A	42	16.989	67.750	50.209	1.00	55.18	A
ATOM	277	N	ILE	A	43	16.561	66.520	52.051	1.00	20.10	A
ATOM	278	CA	ILE	A	43	16.269	65.302	51.317	1.00	20.10	A
ATOM	279	CB	ILE	A	43	15.440	64.319	52.162	1.00	22.38	A
ATOM	280	CG2	ILE	A	43	15.404	62.952	51.482	1.00	22.38	A
ATOM	281	CG1	ILE	A	43	16.062	64.166	53.541	1.00	22.38	A
ATOM	282	CD	ILE	A	43	17.339	63.403	53.534	1.00	22.38	A
ATOM	283	C	ILE	A	43	15.468	65.641	50.066	1.00	20.10	A
ATOM	284	O	ILE	A	43	15.890	65.356	48.943	1.00	20.10	A
ATOM	285	N	LEU	A	44	14.310	66.260	50.281	1.00	46.55	A
ATOM	286	CA	LEU	A	44	13.419	66.648	49.196	1.00	46.55	A
ATOM	287	CB	LEU	A	44	12.410	67.689	49.686	1.00	52.98	A
ATOM	288	CG	LEU	A	44	11.436	67.147	50.731	1.00	52.98	A
ATOM	289	CD1	LEU	A	44	10.608	68.269	51.320	1.00	52.98	A
ATOM	290	CD2	LEU	A	44	10.550	66.110	50.077	1.00	52.98	A
ATOM	291	C	LEU	A	44	14.189	67.204	48.002	1.00	46.55	A
ATOM	292	O	LEU	A	44	14.084	66.692	46.881	1.00	46.55	A
ATOM	293	N	LEU	A	45	14.970	68.250	48.247	1.00	40.73	A
ATOM	294	CA	LEU	A	45	15.757	68.877	47.192	1.00	40.73	A
ATOM	295	CB	LEU	A	45	16.322	70.203	47.690	1.00	25.17	A
ATOM	296	CG	LEU	A	45	15.338	71.271	48.150	1.00	25.17	A
ATOM	297	CD1	LEU	A	45	16.096	72.346	48.868	1.00	25.17	A
ATOM	298	CD2	LEU	A	45	14.609	71.867	46.976	1.00	25.17	A

ATOM	299	C	LEU	A	45	16.914	67.985	46.744	1.00	40.73	A
ATOM	300	O	LEU	A	45	17.466	68.168	45.660	1.00	40.73	A
ATOM	301	N	SER	A	46	17.270	67.023	47.592	1.00	49.02	A
ATOM	302	CA	SER	A	46	18.375	66.112	47.326	1.00	49.02	A
ATOM	303	CB	SER	A	46	19.145	65.831	48.619	1.00	100.07	A
ATOM	304	OG	SER	A	46	19.335	67.007	49.381	1.00	100.07	A
ATOM	305	C	SER	A	46	17.915	64.782	46.753	1.00	49.02	A
ATOM	306	O	SER	A	46	17.264	64.709	45.714	1.00	49.02	A
ATOM	307	N	SER	A	47	18.276	63.726	47.461	1.00	43.33	A
ATOM	308	CA	SER	A	47	17.935	62.367	47.083	1.00	43.33	A
ATOM	309	CB	SER	A	47	18.397	61.419	48.196	1.00	99.93	A
ATOM	310	OG	SER	A	47	19.629	61.851	48.751	1.00	99.93	A
ATOM	311	C	SER	A	47	16.435	62.137	46.802	1.00	43.33	A
ATOM	312	O	SER	A	47	15.624	62.121	47.733	1.00	43.33	A
ATOM	313	N	ILE	A	48	16.073	61.959	45.531	1.00	85.43	A
ATOM	314	CA	ILE	A	48	14.684	61.695	45.128	1.00	85.43	A
ATOM	315	CB	ILE	A	48	13.746	62.916	45.278	1.00	25.46	A
ATOM	316	CG2	ILE	A	48	12.484	62.694	44.442	1.00	25.46	A
ATOM	317	CG1	ILE	A	48	13.377	63.159	46.745	1.00	25.46	A
ATOM	318	CD	ILE	A	48	12.100	62.507	47.206	1.00	25.46	A
ATOM	319	C	ILE	A	48	14.616	61.324	43.660	1.00	85.43	A
ATOM	320	O	ILE	A	48	14.911	62.151	42.796	1.00	85.43	A
ATOM	321	N	PRO	A	49	14.191	60.089	43.354	1.00	54.50	A
ATOM	322	CD	PRO	A	49	13.855	59.002	44.287	1.00	98.88	A
ATOM	323	CA	PRO	A	49	14.090	59.628	41.968	1.00	54.50	A
ATOM	324	CB	PRO	A	49	13.472	58.243	42.115	1.00	98.88	A
ATOM	325	CG	PRO	A	49	14.029	57.779	43.417	1.00	98.88	A
ATOM	326	C	PRO	A	49	13.235	60.555	41.113	1.00	54.50	A
ATOM	327	O	PRO	A	49	12.143	60.947	41.518	1.00	54.50	A
ATOM	328	N	GLY	A	50	13.749	60.903	39.937	1.00	44.57	A
ATOM	329	CA	GLY	A	50	13.041	61.776	39.021	1.00	44.57	A
ATOM	330	C	GLY	A	50	13.338	61.313	37.613	1.00	44.57	A
ATOM	331	O	GLY	A	50	13.775	60.182	37.424	1.00	44.57	A
ATOM	332	N	THR	A	51	13.134	62.178	36.624	1.00	54.82	A
ATOM	333	CA	THR	A	51	13.368	61.808	35.229	1.00	54.82	A
ATOM	334	CB	THR	A	51	12.086	61.266	34.624	1.00	88.12	A
ATOM	335	OG1	THR	A	51	11.121	62.326	34.566	1.00	88.12	A
ATOM	336	CG2	THR	A	51	11.528	60.129	35.480	1.00	88.12	A
ATOM	337	C	THR	A	51	13.793	63.019	34.397	1.00	54.82	A
ATOM	338	O	THR	A	51	13.311	64.123	34.624	1.00	54.82	A
ATOM	339	N	ALA	A	52	14.680	62.812	33.425	1.00	32.19	A
ATOM	340	CA	ALA	A	52	15.134	63.907	32.571	1.00	32.19	A
ATOM	341	CB	ALA	A	52	16.008	64.856	33.371	1.00	100.07	A
ATOM	342	C	ALA	A	52	15.876	63.456	31.313	1.00	32.19	A
ATOM	343	O	ALA	A	52	16.463	62.375	31.280	1.00	32.19	A
ATOM	344	N	VAL	A	53	15.847	64.298	30.282	1.00	31.84	A
ATOM	345	CA	VAL	A	53	16.510	64.001	29.016	1.00	31.84	A
ATOM	346	CB	VAL	A	53	16.542	65.251	28.123	1.00	36.17	A
ATOM	347	CG1	VAL	A	53	17.906	65.430	27.504	1.00	36.17	A
ATOM	348	CG2	VAL	A	53	15.501	65.126	27.036	1.00	36.17	A
ATOM	349	C	VAL	A	53	17.930	63.524	29.281	1.00	31.84	A
ATOM	350	O	VAL	A	53	18.460	63.735	30.365	1.00	31.84	A
ATOM	351	N	THR	A	54	18.562	62.900	28.294	1.00	38.47	A
ATOM	352	CA	THR	A	54	19.915	62.400	28.495	1.00	38.47	A
ATOM	353	CB	THR	A	54	19.866	60.958	28.965	1.00	69.18	A
ATOM	354	OG1	THR	A	54	18.933	60.849	30.043	1.00	69.18	A
ATOM	355	CG2	THR	A	54	21.238	60.497	29.413	1.00	69.18	A
ATOM	356	C	THR	A	54	20.810	62.434	27.264	1.00	38.47	A
ATOM	357	O	THR	A	54	22.038	62.464	27.391	1.00	38.47	A
ATOM	358	N	SER	A	55	20.192	62.403	26.082	1.00	48.54	A
ATOM	359	CA	SER	A	55	20.919	62.424	24.810	1.00	48.54	A
ATOM	360	CB	SER	A	55	21.768	61.157	24.684	1.00	72.28	A
ATOM	361	OG	SER	A	55	22.265	61.011	23.369	1.00	72.28	A
ATOM	362	C	SER	A	55	19.970	62.520	23.611	1.00	48.54	A
ATOM	363	O	SER	A	55	18.924	61.864	23.582	1.00	48.54	A
ATOM	364	N	VAL	A	56	20.331	63.334	22.622	1.00	74.20	A
ATOM	365	CA	VAL	A	56	19.483	63.476	21.440	1.00	74.20	A
ATOM	366	CB	VAL	A	56	18.765	64.875	21.357	1.00	15.45	A
ATOM	367	CG1	VAL	A	56	18.329	65.339	22.717	1.00	15.45	A
ATOM	368	CG2	VAL	A	56	19.664	65.896	20.712	1.00	15.45	A
ATOM	369	C	VAL	A	56	20.216	63.290	20.120	1.00	74.20	A
ATOM	370	O	VAL	A	56	21.439	63.384	20.048	1.00	74.20	A
ATOM	371	N	TYR	A	57	19.439	63.014	19.079	1.00	62.63	A
ATOM	372	CA	TYR	A	57	19.954	62.864	17.731	1.00	62.63	A
ATOM	373	CB	TYR	A	57	19.964	61.401	17.266	1.00	52.17	A
ATOM	374	CG	TYR	A	57	20.310	61.202	15.788	1.00	52.17	A
ATOM	375	CD1	TYR	A	57	20.875	60.010	15.335	1.00	52.17	A
ATOM	376	CE1	TYR	A	57	21.190	59.822	13.980	1.00	52.17	A
ATOM	377	CD2	TYR	A	57	20.065	62.199	14.844	1.00	52.17	A
ATOM	378	CE2	TYR	A	57	20.371	62.022	13.492	1.00	52.17	A
ATOM	379	CZ	TYR	A	57	20.935	60.837	13.066	1.00	52.17	A
ATOM	380	OH	TYR	A	57	21.253	60.688	11.732	1.00	52.17	A
ATOM	381	C	TYR	A	57	18.991	63.644	16.881	1.00	62.63	A
ATOM	382	O	TYR	A	57	17.850	63.227	16.690	1.00	62.63	A

ATOM	467	CA	ILE	A	68	19.825	73.136	11.444	1.00	68.89	A
ATOM	468	CB	ILE	A	68	18.866	72.182	12.216	1.00	47.46	A
ATOM	469	CG2	ILE	A	68	18.420	71.048	11.306	1.00	47.46	A
ATOM	470	CG1	ILE	A	68	19.574	71.570	13.424	1.00	47.46	A
ATOM	471	CD	ILE	A	68	18.671	70.752	14.283	1.00	47.46	A
ATOM	472	C	ILE	A	68	18.962	74.172	10.719	1.00	68.89	A
ATOM	473	O	ILE	A	68	18.215	74.927	11.348	1.00	68.89	A
ATOM	474	N	PRO	A	69	19.035	74.189	9.375	1.00	69.72	A
ATOM	475	CD	PRO	A	69	19.754	73.147	8.619	1.00	34.85	A
ATOM	476	CA	PRO	A	69	18.316	75.088	8.454	1.00	69.72	A
ATOM	477	CB	PRO	A	69	18.767	74.604	7.077	1.00	34.85	A
ATOM	478	CG	PRO	A	69	18.999	73.140	7.306	1.00	34.85	A
ATOM	479	C	PRO	A	69	16.800	75.116	8.569	1.00	69.72	A
ATOM	480	O	PRO	A	69	16.187	74.160	9.033	1.00	69.72	A
ATOM	481	N	GLY	A	70	16.212	76.222	8.116	1.00	92.95	A
ATOM	482	CA	GLY	A	70	14.772	76.388	8.174	1.00	92.95	A
ATOM	483	C	GLY	A	70	14.338	76.526	9.618	1.00	92.95	A
ATOM	484	O	GLY	A	70	13.167	76.771	9.905	1.00	92.95	A
ATOM	485	N	VAL	A	71	15.296	76.377	10.528	1.00	56.58	A
ATOM	486	CA	VAL	A	71	15.033	76.454	11.955	1.00	56.58	A
ATOM	487	CB	VAL	A	71	15.624	75.233	12.690	1.00	36.59	A
ATOM	488	CG1	VAL	A	71	15.017	75.097	14.074	1.00	36.59	A
ATOM	489	CG2	VAL	A	71	15.422	73.988	11.876	1.00	36.59	A
ATOM	490	C	VAL	A	71	15.712	77.683	12.536	1.00	56.58	A
ATOM	491	O	VAL	A	71	16.927	77.701	12.689	1.00	56.58	A
ATOM	492	N	LYS	A	72	14.928	78.700	12.869	1.00	65.96	A
ATOM	493	CA	LYS	A	72	15.459	79.925	13.473	1.00	65.96	A
ATOM	494	CB	LYS	A	72	14.290	80.823	13.902	1.00	99.92	A
ATOM	495	CG	LYS	A	72	14.647	81.927	14.895	1.00	99.92	A
ATOM	496	CD	LYS	A	72	13.387	82.534	15.506	1.00	99.92	A
ATOM	497	CE	LYS	A	72	13.686	83.308	16.781	1.00	99.92	A
ATOM	498	NZ	LYS	A	72	12.437	83.682	17.502	1.00	99.92	A
ATOM	499	C	LYS	A	72	16.346	79.620	14.688	1.00	65.96	A
ATOM	500	O	LYS	A	72	17.428	80.197	14.840	1.00	65.96	A
ATOM	501	N	GLU	A	73	15.868	78.730	15.555	1.00	56.97	A
ATOM	502	CA	GLU	A	73	16.607	78.315	16.744	1.00	56.97	A
ATOM	503	CB	GLU	A	73	15.973	77.066	17.361	1.00	64.77	A
ATOM	504	CG	GLU	A	73	15.259	77.297	18.646	1.00	64.77	A
ATOM	505	CD	GLU	A	73	14.292	78.429	18.525	1.00	64.77	A
ATOM	506	OE1	GLU	A	73	13.611	78.489	17.484	1.00	64.77	A
ATOM	507	OE2	GLU	A	73	14.205	79.254	19.460	1.00	64.77	A
ATOM	508	C	GLU	A	73	18.028	77.951	16.344	1.00	56.97	A
ATOM	509	O	GLU	A	73	18.369	77.943	15.163	1.00	56.97	A
ATOM	510	N	ASP	A	74	18.840	77.627	17.344	1.00	56.37	A
ATOM	511	CA	ASP	A	74	20.227	77.213	17.143	1.00	56.37	A
ATOM	512	CB	ASP	A	74	21.111	77.836	18.232	1.00	68.46	A
ATOM	513	CG	ASP	A	74	22.589	77.652	17.969	1.00	68.46	A
ATOM	514	OD1	ASP	A	74	23.082	76.509	18.057	1.00	68.46	A
ATOM	515	OD2	ASP	A	74	23.260	78.663	17.675	1.00	68.46	A
ATOM	516	C	ASP	A	74	20.176	75.695	17.301	1.00	56.37	A
ATOM	517	O	ASP	A	74	19.332	75.039	16.700	1.00	56.37	A
ATOM	518	N	VAL	A	75	21.064	75.132	18.107	1.00	47.58	A
ATOM	519	CA	VAL	A	75	21.052	73.694	18.331	1.00	47.58	A
ATOM	520	CB	VAL	A	75	22.004	72.915	17.374	1.00	71.89	A
ATOM	521	CG1	VAL	A	75	21.598	73.139	15.923	1.00	71.89	A
ATOM	522	CG2	VAL	A	75	23.438	73.342	17.593	1.00	71.89	A
ATOM	523	C	VAL	A	75	21.480	73.467	19.761	1.00	47.58	A
ATOM	524	O	VAL	A	75	21.212	72.415	20.341	1.00	47.58	A
ATOM	525	N	VAL	A	76	22.150	74.470	20.325	1.00	47.65	A
ATOM	526	CA	VAL	A	76	22.606	74.387	21.705	1.00	47.65	A
ATOM	527	CB	VAL	A	76	23.711	75.429	22.029	1.00	53.08	A
ATOM	528	CG1	VAL	A	76	24.565	74.932	23.186	1.00	53.08	A
ATOM	529	CG2	VAL	A	76	24.561	75.700	20.806	1.00	53.08	A
ATOM	530	C	VAL	A	76	21.361	74.716	22.502	1.00	47.65	A
ATOM	531	O	VAL	A	76	20.969	73.976	23.415	1.00	47.65	A
ATOM	532	N	GLU	A	77	20.738	75.833	22.118	1.00	51.13	A
ATOM	533	CA	GLU	A	77	19.512	76.305	22.750	1.00	51.13	A
ATOM	534	CB	GLU	A	77	18.912	77.446	21.935	1.00	99.63	A
ATOM	535	CG	GLU	A	77	18.429	78.606	22.766	1.00	99.63	A
ATOM	536	CD	GLU	A	77	17.254	79.306	22.125	1.00	99.63	A
ATOM	537	OE1	GLU	A	77	16.118	78.791	22.241	1.00	99.63	A
ATOM	538	OE2	GLU	A	77	17.469	80.362	21.493	1.00	99.63	A
ATOM	539	C	GLU	A	77	18.566	75.106	22.752	1.00	51.13	A
ATOM	540	O	GLU	A	77	18.148	74.627	23.805	1.00	51.13	A
ATOM	541	N	ILE	A	78	18.239	74.623	21.557	1.00	41.27	A
ATOM	542	CA	ILE	A	78	17.374	73.468	21.425	1.00	41.27	A
ATOM	543	CB	ILE	A	78	17.596	72.782	20.080	1.00	44.04	A
ATOM	544	CG2	ILE	A	78	16.831	71.480	20.035	1.00	44.04	A
ATOM	545	CG1	ILE	A	78	17.197	73.735	18.951	1.00	44.04	A
ATOM	546	CD	ILE	A	78	17.541	73.234	17.560	1.00	44.04	A
ATOM	547	C	ILE	A	78	17.786	72.519	22.530	1.00	41.27	A
ATOM	548	O	ILE	A	78	16.984	72.174	23.385	1.00	41.27	A
ATOM	549	N	ILE	A	79	19.049	72.118	22.538	1.00	42.42	A
ATOM	550	CA	ILE	A	79	19.491	71.211	23.576	1.00	42.42	A

ATOM	551	CB	ILE	A	79	21.013	71.013	23.586	1.00	35.69	A
ATOM	552	CG2	ILE	A	79	21.426	70.226	24.837	1.00	35.69	A
ATOM	553	CG1	ILE	A	79	21.450	70.237	22.349	1.00	35.69	A
ATOM	554	CD	ILE	A	79	21.040	68.792	22.370	1.00	35.69	A
ATOM	555	C	ILE	A	79	19.089	71.752	24.927	1.00	42.42	A
ATOM	556	O	ILE	A	79	18.740	70.980	25.811	1.00	42.42	A
ATOM	557	N	LEU	A	80	19.136	73.074	25.084	1.00	70.11	A
ATOM	558	CA	LEU	A	80	18.779	73.710	26.354	1.00	70.11	A
ATOM	559	CB	LEU	A	80	19.257	75.173	26.380	1.00	34.05	A
ATOM	560	CG	LEU	A	80	20.732	75.506	26.083	1.00	34.05	A
ATOM	561	CD1	LEU	A	80	20.959	76.988	26.339	1.00	34.05	A
ATOM	562	CD2	LEU	A	80	21.677	74.686	26.952	1.00	34.05	A
ATOM	563	C	LEU	A	80	17.276	73.644	26.654	1.00	70.11	A
ATOM	564	O	LEU	A	80	16.892	73.356	27.789	1.00	70.11	A
ATOM	565	N	ASN	A	81	16.423	73.924	25.665	1.00	34.19	A
ATOM	566	CA	ASN	A	81	14.981	73.826	25.903	1.00	34.19	A
ATOM	567	CB	ASN	A	81	14.178	74.115	24.622	1.00	38.34	A
ATOM	568	CG	ASN	A	81	14.037	75.611	24.326	1.00	38.34	A
ATOM	569	OD1	ASN	A	81	14.858	76.211	23.631	1.00	38.34	A
ATOM	570	ND2	ASN	A	81	12.984	76.215	24.859	1.00	38.34	A
ATOM	571	C	ASN	A	81	14.754	72.381	26.350	1.00	34.19	A
ATOM	572	O	ASN	A	81	14.429	72.100	27.508	1.00	34.19	A
ATOM	573	N	LEU	A	82	14.976	71.473	25.407	1.00	59.07	A
ATOM	574	CA	LEU	A	82	14.849	70.030	25.594	1.00	59.07	A
ATOM	575	CB	LEU	A	82	15.567	69.353	24.409	1.00	58.84	A
ATOM	576	CG	LEU	A	82	15.719	67.852	24.181	1.00	58.84	A
ATOM	577	CD1	LEU	A	82	15.984	67.607	22.702	1.00	58.84	A
ATOM	578	CD2	LEU	A	82	16.848	67.312	25.036	1.00	58.84	A
ATOM	579	C	LEU	A	82	15.404	69.563	26.944	1.00	59.07	A
ATOM	580	O	LEU	A	82	15.077	68.478	27.415	1.00	59.07	A
ATOM	581	N	LYS	A	83	16.238	70.389	27.565	1.00	40.47	A
ATOM	582	CA	LYS	A	83	16.819	70.056	28.860	1.00	40.47	A
ATOM	583	CB	LYS	A	83	17.902	71.066	29.260	1.00	71.50	A
ATOM	584	CG	LYS	A	83	19.280	70.837	28.666	1.00	71.50	A
ATOM	585	CD	LYS	A	83	20.261	71.900	29.148	1.00	71.50	A
ATOM	586	CE	LYS	A	83	20.472	71.818	30.645	1.00	71.50	A
ATOM	587	NZ	LYS	A	83	21.299	72.948	31.147	1.00	71.50	A
ATOM	588	C	LYS	A	83	15.739	70.082	29.928	1.00	40.47	A
ATOM	589	O	LYS	A	83	15.774	69.300	30.885	1.00	40.47	A
ATOM	590	N	GLU	A	84	14.791	71.002	29.767	1.00	100.07	A
ATOM	591	CA	GLU	A	84	13.698	71.163	30.719	1.00	100.07	A
ATOM	592	CB	GLU	A	84	13.113	72.561	30.617	1.00	99.88	A
ATOM	593	CG	GLU	A	84	13.981	73.587	31.279	1.00	99.88	A
ATOM	594	CD	GLU	A	84	13.730	74.954	30.735	1.00	99.88	A
ATOM	595	OE1	GLU	A	84	12.552	75.369	30.714	1.00	99.88	A
ATOM	596	OE2	GLU	A	84	14.710	75.609	30.326	1.00	99.88	A
ATOM	597	C	GLU	A	84	12.599	70.134	30.557	1.00	100.07	A
ATOM	598	O	GLU	A	84	12.089	69.613	31.550	1.00	100.07	A
ATOM	599	N	LEU	A	85	12.229	69.856	29.311	1.00	31.70	A
ATOM	600	CA	LEU	A	85	11.204	68.863	29.023	1.00	31.70	A
ATOM	601	CB	LEU	A	85	11.528	68.157	27.705	1.00	36.11	A
ATOM	602	CG	LEU	A	85	10.661	66.947	27.364	1.00	36.11	A
ATOM	603	CD1	LEU	A	85	9.209	67.333	27.506	1.00	36.11	A
ATOM	604	CD2	LEU	A	85	10.950	66.480	25.947	1.00	36.11	A
ATOM	605	C	LEU	A	85	11.097	67.819	30.138	1.00	31.70	A
ATOM	606	O	LEU	A	85	12.002	67.003	30.332	1.00	31.70	A
ATOM	607	N	VAL	A	86	9.988	67.867	30.872	1.00	64.02	A
ATOM	608	CA	VAL	A	86	9.746	66.938	31.967	1.00	64.02	A
ATOM	609	CB	VAL	A	86	9.075	67.640	33.155	1.00	43.35	A
ATOM	610	CG1	VAL	A	86	7.761	68.241	32.738	1.00	43.35	A
ATOM	611	CG2	VAL	A	86	8.865	66.662	34.267	1.00	43.35	A
ATOM	612	C	VAL	A	86	8.889	65.760	31.528	1.00	64.02	A
ATOM	613	O	VAL	A	86	7.912	65.945	30.798	1.00	64.02	A
ATOM	614	N	VAL	A	87	9.247	64.551	31.969	1.00	31.91	A
ATOM	615	CA	VAL	A	87	8.491	63.355	31.584	1.00	31.91	A
ATOM	616	CB	VAL	A	87	9.341	62.361	30.760	1.00	48.32	A
ATOM	617	CG1	VAL	A	87	9.363	62.762	29.307	1.00	48.32	A
ATOM	618	CG2	VAL	A	87	10.751	62.321	31.304	1.00	48.32	A
ATOM	619	C	VAL	A	87	7.925	62.575	32.752	1.00	31.91	A
ATOM	620	O	VAL	A	87	8.558	62.430	33.784	1.00	31.91	A
ATOM	621	N	ARG	A	88	6.707	62.091	32.569	1.00	62.79	A
ATOM	622	CA	ARG	A	88	6.028	61.273	33.557	1.00	62.79	A
ATOM	623	CB	ARG	A	88	4.565	61.715	33.684	1.00	68.82	A
ATOM	624	CG	ARG	A	88	3.661	60.775	34.489	1.00	68.82	A
ATOM	625	CD	ARG	A	88	2.337	61.461	34.886	1.00	68.82	A
ATOM	626	NE	ARG	A	88	1.402	60.584	35.594	1.00	68.82	A
ATOM	627	CZ	ARG	A	88	1.705	59.860	36.671	1.00	68.82	A
ATOM	628	NH1	ARG	A	88	0.785	59.099	37.239	1.00	68.82	A
ATOM	629	NH2	ARG	A	88	2.928	59.880	37.184	1.00	68.82	A
ATOM	630	C	ARG	A	88	6.131	59.906	32.892	1.00	62.79	A
ATOM	631	O	ARG	A	88	5.583	59.699	31.811	1.00	62.79	A
ATOM	632	N	PHE	A	89	6.842	58.980	33.524	1.00	88.02	A
ATOM	633	CA	PHE	A	89	7.055	57.662	32.938	1.00	88.02	A
ATOM	634	CB	PHE	A	89	8.420	57.135	33.409	1.00	36.30	A

ATOM	635	CG	PHE	A	89	9.547	57.385	32.429	1.00	36.30	A
ATOM	636	CD1	PHE	A	89	9.441	58.369	31.444	1.00	36.30	A
ATOM	637	CD2	PHE	A	89	10.717	56.620	32.483	1.00	36.30	A
ATOM	638	CE1	PHE	A	89	10.493	58.578	30.514	1.00	36.30	A
ATOM	639	CE2	PHE	A	89	11.769	56.822	31.562	1.00	36.30	A
ATOM	640	CZ	PHE	A	89	11.655	57.800	30.582	1.00	36.30	A
ATOM	641	C	PHE	A	89	5.986	56.568	33.069	1.00	88.02	A
ATOM	642	O	PHE	A	89	5.719	55.858	32.099	1.00	88.02	A
ATOM	643	N	LEU	A	90	5.375	56.428	34.240	1.00	100.03	A
ATOM	644	CA	LEU	A	90	4.355	55.398	34.452	1.00	100.03	A
ATOM	645	CB	LEU	A	90	3.385	55.335	33.268	1.00	43.38	A
ATOM	646	CG	LEU	A	90	2.587	56.623	33.037	1.00	43.38	A
ATOM	647	CD1	LEU	A	90	1.514	56.436	31.972	1.00	43.38	A
ATOM	648	CD2	LEU	A	90	1.932	57.016	34.341	1.00	43.38	A
ATOM	649	C	LEU	A	90	4.990	54.028	34.683	1.00	100.03	A
ATOM	650	O	LEU	A	90	5.794	53.853	35.600	1.00	100.03	A
ATOM	651	N	ASP	A	91	4.627	53.064	33.845	1.00	82.00	A
ATOM	652	CA	ASP	A	91	5.131	51.692	33.935	1.00	82.00	A
ATOM	653	CB	ASP	A	91	5.334	51.115	32.531	1.00	100.07	A
ATOM	654	CG	ASP	A	91	6.270	51.954	31.685	1.00	100.07	A
ATOM	655	OD1	ASP	A	91	7.485	51.991	31.985	1.00	100.07	A
ATOM	656	OD2	ASP	A	91	5.783	52.582	30.717	1.00	100.07	A
ATOM	657	C	ASP	A	91	6.391	51.442	34.752	1.00	82.00	A
ATOM	658	O	ASP	A	91	7.498	51.752	34.318	1.00	82.00	A
ATOM	659	N	PRO	A	92	6.230	50.878	35.958	1.00	75.04	A
ATOM	660	CD	PRO	A	92	4.953	50.554	36.616	1.00	100.07	A
ATOM	661	CA	PRO	A	92	7.356	50.571	36.837	1.00	75.04	A
ATOM	662	CB	PRO	A	92	6.721	49.688	37.893	1.00	100.07	A
ATOM	663	CG	PRO	A	92	5.374	50.328	38.051	1.00	100.07	A
ATOM	664	C	PRO	A	92	8.396	49.840	36.007	1.00	75.04	A
ATOM	665	O	PRO	A	92	8.216	48.664	35.655	1.00	75.04	A
ATOM	666	N	ARG	A	93	9.457	50.578	35.680	1.00	100.07	A
ATOM	667	CA	ARG	A	93	10.584	50.115	34.869	1.00	100.07	A
ATOM	668	CB	ARG	A	93	10.444	48.626	34.537	1.00	100.07	A
ATOM	669	CG	ARG	A	93	11.763	47.913	34.422	1.00	100.07	A
ATOM	670	CD	ARG	A	93	12.626	48.210	35.641	1.00	100.07	A
ATOM	671	NE	ARG	A	93	13.974	47.675	35.493	1.00	100.07	A
ATOM	672	CZ	ARG	A	93	15.043	48.171	36.105	1.00	100.07	A
ATOM	673	NH1	ARG	A	93	14.919	49.220	36.909	1.00	100.07	A
ATOM	674	NH2	ARG	A	93	16.235	47.624	35.903	1.00	100.07	A
ATOM	675	C	ARG	A	93	10.591	50.940	33.581	1.00	100.07	A
ATOM	676	O	ARG	A	93	9.553	51.079	32.934	1.00	100.07	A
ATOM	677	N	TRP	A	94	11.740	51.503	33.210	1.00	75.71	A
ATOM	678	CA	TRP	A	94	11.794	52.301	31.987	1.00	75.71	A
ATOM	679	CB	TRP	A	94	10.774	53.442	32.089	1.00	99.15	A
ATOM	680	CG	TRP	A	94	9.927	53.683	30.853	1.00	99.15	A
ATOM	681	CD2	TRP	A	94	9.912	52.919	29.642	1.00	99.15	A
ATOM	682	CE2	TRP	A	94	8.990	53.540	28.769	1.00	99.15	A
ATOM	683	CE3	TRP	A	94	10.585	51.772	29.207	1.00	99.15	A
ATOM	684	CD1	TRP	A	94	9.035	54.699	30.666	1.00	99.15	A
ATOM	685	NE1	TRP	A	94	8.472	54.624	29.421	1.00	99.15	A
ATOM	686	CZ2	TRP	A	94	8.726	53.055	27.485	1.00	99.15	A
ATOM	687	CZ3	TRP	A	94	10.323	51.289	27.926	1.00	99.15	A
ATOM	688	CH2	TRP	A	94	9.399	51.932	27.081	1.00	99.15	A
ATOM	689	C	TRP	A	94	13.181	52.860	31.622	1.00	75.71	A
ATOM	690	O	TRP	A	94	14.204	52.300	32.021	1.00	75.71	A
ATOM	691	N	ARG	A	95	13.168	53.951	30.846	1.00	54.02	A
ATOM	692	CA	ARG	A	95	14.330	54.700	30.336	1.00	54.02	A
ATOM	693	CB	ARG	A	95	15.670	54.103	30.811	1.00	100.06	A
ATOM	694	CG	ARG	A	95	15.943	54.246	32.325	1.00	100.06	A
ATOM	695	CD	ARG	A	95	17.394	53.909	32.698	1.00	100.06	A
ATOM	696	NE	ARG	A	95	17.546	53.545	34.111	1.00	100.06	A
ATOM	697	CZ	ARG	A	95	18.714	53.439	34.748	1.00	100.06	A
ATOM	698	NH1	ARG	A	95	19.855	53.674	34.114	1.00	100.06	A
ATOM	699	NH2	ARG	A	95	18.745	53.077	36.025	1.00	100.06	A
ATOM	700	C	ARG	A	95	14.278	54.722	28.811	1.00	54.02	A
ATOM	701	O	ARG	A	95	15.299	54.555	28.157	1.00	54.02	A
ATOM	702	N	THR	A	96	13.080	54.976	28.270	1.00	42.25	A
ATOM	703	CA	THR	A	96	12.785	54.978	26.817	1.00	42.25	A
ATOM	704	CB	THR	A	96	11.251	54.979	26.574	1.00	64.26	A
ATOM	705	OG1	THR	A	96	10.987	54.595	25.221	1.00	64.26	A
ATOM	706	CG2	THR	A	96	10.659	56.357	26.820	1.00	64.26	A
ATOM	707	C	THR	A	96	13.397	56.022	25.870	1.00	42.25	A
ATOM	708	O	THR	A	96	14.484	56.530	26.109	1.00	42.25	A
ATOM	709	N	THR	A	97	12.691	56.311	24.780	1.00	37.72	A
ATOM	710	CA	THR	A	97	13.146	57.277	23.781	1.00	37.72	A
ATOM	711	CB	THR	A	97	13.999	56.625	22.731	1.00	16.48	A
ATOM	712	OG1	THR	A	97	15.101	55.984	23.369	1.00	16.48	A
ATOM	713	CG2	THR	A	97	14.492	57.667	21.735	1.00	16.48	A
ATOM	714	C	THR	A	97	12.004	57.939	23.029	1.00	37.72	A
ATOM	715	O	THR	A	97	10.949	57.347	22.842	1.00	37.72	A
ATOM	716	N	LEU	A	98	12.218	59.158	22.562	1.00	50.75	A
ATOM	717	CA	LEU	A	98	11.151	59.825	21.859	1.00	50.75	A
ATOM	718	CB	LEU	A	98	10.672	61.041	22.648	1.00	14.35	A

ATOM	803	CZ	ARG A 109	0.382	73.423	20.306	1.00100.07	A
ATOM	804	NH1	ARG A 109	0.053	74.238	21.298	1.00100.07	A
ATOM	805	NH2	ARG A 109	-0.536	73.027	19.438	1.00100.07	A
ATOM	806	C	ARG A 109	6.520	71.091	21.492	1.00 23.54	A
ATOM	807	O	ARG A 109	6.398	70.210	20.648	1.00 23.54	A
ATOM	808	N	ALA A 110	6.655	70.823	22.786	1.00 50.26	A
ATOM	809	CA	ALA A 110	6.725	69.446	23.295	1.00 50.26	A
ATOM	810	CB	ALA A 110	6.742	69.455	24.823	1.00 70.58	A
ATOM	811	C	ALA A 110	5.652	68.478	22.808	1.00 50.26	A
ATOM	812	O	ALA A 110	5.957	67.321	22.510	1.00 50.26	A
ATOM	813	N	VAL A 111	4.405	68.936	22.748	1.00 98.69	A
ATOM	814	CA	VAL A 111	3.293	68.098	22.300	1.00 98.69	A
ATOM	815	CB	VAL A 111	2.064	68.967	21.939	1.00100.07	A
ATOM	816	CG1	VAL A 111	0.896	68.091	21.485	1.00100.07	A
ATOM	817	CG2	VAL A 111	1.663	69.801	23.140	1.00100.07	A
ATOM	818	C	VAL A 111	3.692	67.281	21.082	1.00 98.69	A
ATOM	819	O	VAL A 111	3.751	66.051	21.139	1.00 98.69	A
ATOM	820	N	ASP A 112	3.974	67.989	19.991	1.00 65.07	A
ATOM	821	CA	ASP A 112	4.371	67.396	18.720	1.00 65.07	A
ATOM	822	CB	ASP A 112	5.018	68.476	17.865	1.00 99.77	A
ATOM	823	CG	ASP A 112	4.079	69.630	17.595	1.00 99.77	A
ATOM	824	OD1	ASP A 112	3.135	69.448	16.801	1.00 99.77	A
ATOM	825	OD2	ASP A 112	4.271	70.713	18.185	1.00 99.77	A
ATOM	826	C	ASP A 112	5.308	66.207	18.869	1.00 65.07	A
ATOM	827	O	ASP A 112	5.536	65.458	17.926	1.00 65.07	A
ATOM	828	N	PHE A 113	5.860	66.035	20.058	1.00 61.73	A
ATOM	829	CA	PHE A 113	6.746	64.921	20.301	1.00 61.73	A
ATOM	830	CB	PHE A 113	7.319	65.006	21.705	1.00 56.73	A
ATOM	831	CG	PHE A 113	8.798	65.124	21.730	1.00 56.73	A
ATOM	832	CD1	PHE A 113	9.407	66.335	21.469	1.00 56.73	A
ATOM	833	CD2	PHE A 113	9.588	64.012	21.984	1.00 56.73	A
ATOM	834	CE1	PHE A 113	10.789	66.442	21.461	1.00 56.73	A
ATOM	835	CE2	PHE A 113	10.962	64.108	21.977	1.00 56.73	A
ATOM	836	CZ	PHE A 113	11.567	65.327	21.715	1.00 56.73	A
ATOM	837	C	PHE A 113	5.964	63.630	20.159	1.00 61.73	A
ATOM	838	O	PHE A 113	5.220	63.259	21.071	1.00 61.73	A
ATOM	839	N	THR A 114	6.143	62.953	19.023	1.00 51.46	A
ATOM	840	CA	THR A 114	5.463	61.689	18.735	1.00 51.46	A
ATOM	841	CB	THR A 114	6.451	60.574	18.353	1.00 52.59	A
ATOM	842	OG1	THR A 114	5.754	59.322	18.281	1.00 52.59	A
ATOM	843	CG2	THR A 114	7.530	60.453	19.391	1.00 52.59	A
ATOM	844	C	THR A 114	4.627	61.158	19.886	1.00 51.46	A
ATOM	845	O	THR A 114	5.152	60.816	20.957	1.00 51.46	A
ATOM	846	N	PRO A 115	3.302	61.095	19.688	1.00 41.98	A
ATOM	847	CD	PRO A 115	2.489	61.486	18.519	1.00 51.61	A
ATOM	848	CA	PRO A 115	2.468	60.581	20.775	1.00 41.98	A
ATOM	849	CB	PRO A 115	1.097	60.452	20.117	1.00 51.61	A
ATOM	850	CG	PRO A 115	1.103	61.597	19.113	1.00 51.61	A
ATOM	851	C	PRO A 115	3.082	59.234	21.150	1.00 41.98	A
ATOM	852	O	PRO A 115	3.723	58.579	20.320	1.00 41.98	A
ATOM	853	N	SER A 116	2.920	58.833	22.399	1.00 71.44	A
ATOM	854	CA	SER A 116	3.477	57.568	22.825	1.00 71.44	A
ATOM	855	CB	SER A 116	4.994	57.593	22.699	1.00 81.81	A
ATOM	856	OG	SER A 116	5.547	56.438	23.297	1.00 81.81	A
ATOM	857	C	SER A 116	3.101	57.329	24.263	1.00 71.44	A
ATOM	858	O	SER A 116	3.800	57.796	25.167	1.00 71.44	A
ATOM	859	N	ALA A 117	1.999	56.605	24.469	1.00100.07	A
ATOM	860	CA	ALA A 117	1.496	56.304	25.813	1.00100.07	A
ATOM	861	CB	ALA A 117	0.308	55.325	25.741	1.00 89.40	A
ATOM	862	C	ALA A 117	2.600	55.731	26.696	1.00100.07	A
ATOM	863	O	ALA A 117	3.788	55.878	26.391	1.00100.07	A
ATOM	864	N	ASP A 118	2.211	55.071	27.785	1.00 68.67	A
ATOM	865	CA	ASP A 118	3.183	54.496	28.708	1.00 68.67	A
ATOM	866	CB	ASP A 118	3.846	53.268	28.082	1.00 77.30	A
ATOM	867	CG	ASP A 118	4.291	53.511	26.643	1.00 77.30	A
ATOM	868	OD1	ASP A 118	3.434	53.509	25.733	1.00 77.30	A
ATOM	869	OD2	ASP A 118	5.496	53.729	26.415	1.00 77.30	A
ATOM	870	C	ASP A 118	4.243	55.545	29.034	1.00 68.67	A
ATOM	871	O	ASP A 118	5.300	55.229	29.582	1.00 68.67	A
ATOM	872	N	VAL A 119	3.928	56.797	28.697	1.00 84.27	A
ATOM	873	CA	VAL A 119	4.804	57.948	28.899	1.00 84.27	A
ATOM	874	CB	VAL A 119	5.951	57.944	27.867	1.00 70.32	A
ATOM	875	CG1	VAL A 119	6.553	59.328	27.744	1.00 70.32	A
ATOM	876	CG2	VAL A 119	7.019	56.947	28.282	1.00 70.32	A
ATOM	877	C	VAL A 119	4.008	59.247	28.718	1.00 84.27	A
ATOM	878	O	VAL A 119	3.488	59.510	27.635	1.00 84.27	A
ATOM	879	N	GLU A 120	3.919	60.055	29.774	1.00 94.10	A
ATOM	880	CA	GLU A 120	3.197	61.329	29.717	1.00 94.10	A
ATOM	881	CB	GLU A 120	2.408	61.574	31.007	1.00100.07	A
ATOM	882	CG	GLU A 120	1.097	60.818	31.143	1.00100.07	A
ATOM	883	CD	GLU A 120	0.374	61.162	32.439	1.00100.07	A
ATOM	884	OE1	GLU A 120	0.063	62.356	32.654	1.00100.07	A
ATOM	885	OE2	GLU A 120	0.123	60.238	33.243	1.00100.07	A
ATOM	886	C	GLU A 120	4.138	62.512	29.518	1.00 94.10	A

ATOM	887	O	GLO	A	120	5.307	62.459	29.901	1.00	94.10	A
ATOM	888	N	ILE	A	121	3.618	63.586	28.932	1.00	65.61	A
ATOM	889	CA	ILE	A	121	4.414	64.785	28.706	1.00	65.61	A
ATOM	890	CB	ILE	A	121	4.379	65.212	27.231	1.00	99.99	A
ATOM	891	CG2	ILE	A	121	5.350	66.360	26.993	1.00	99.99	A
ATOM	892	CG1	ILE	A	121	4.740	64.019	26.349	1.00	99.99	A
ATOM	893	CD	ILE	A	121	5.999	63.297	26.775	1.00	99.99	A
ATOM	894	C	ILE	A	121	3.890	65.924	29.573	1.00	65.61	A
ATOM	895	O	ILE	A	121	3.383	66.932	29.074	1.00	65.61	A
ATOM	896	N	MET	A	122	4.022	65.738	30.881	1.00	73.05	A
ATOM	897	CA	MET	A	122	3.583	66.696	31.883	1.00	73.05	A
ATOM	898	CB	MET	A	122	4.516	66.614	33.095	1.00	100.07	A
ATOM	899	CG	MET	A	122	3.825	66.738	34.449	1.00	100.07	A
ATOM	900	SD	MET	A	122	3.484	65.141	35.256	1.00	100.07	A
ATOM	901	CE	MET	A	122	2.173	64.515	34.188	1.00	100.07	A
ATOM	902	C	MET	A	122	3.520	68.138	31.385	1.00	73.05	A
ATOM	903	O	MET	A	122	2.609	68.887	31.745	1.00	73.05	A
ATOM	904	N	ASN	A	123	4.484	68.531	30.558	1.00	98.98	A
ATOM	905	CA	ASN	A	123	4.509	69.896	30.054	1.00	98.98	A
ATOM	906	CB	ASN	A	123	5.772	70.619	30.526	1.00	99.41	A
ATOM	907	CG	ASN	A	123	7.021	70.152	29.800	1.00	99.41	A
ATOM	908	OD1	ASN	A	123	7.420	68.994	29.902	1.00	99.41	A
ATOM	909	ND2	ASN	A	123	7.639	71.056	29.055	1.00	99.41	A
ATOM	910	C	ASN	A	123	4.437	69.985	28.543	1.00	98.98	A
ATOM	911	O	ASN	A	123	5.416	69.724	27.849	1.00	98.98	A
ATOM	912	N	PRO	A	124	3.265	70.337	28.005	1.00	50.62	A
ATOM	913	CD	PRO	A	124	2.027	70.802	28.648	1.00	100.07	A
ATOM	914	CA	PRO	A	124	3.169	70.452	26.551	1.00	50.62	A
ATOM	915	CB	PRO	A	124	1.679	70.610	26.327	1.00	100.07	A
ATOM	916	CG	PRO	A	124	1.289	71.460	27.488	1.00	100.07	A
ATOM	917	C	PRO	A	124	3.921	71.758	26.316	1.00	50.62	A
ATOM	918	O	PRO	A	124	4.892	72.051	27.024	1.00	50.62	A
ATOM	919	N	ASP	A	125	3.473	72.561	25.362	1.00	100.07	A
ATOM	920	CA	ASP	A	125	4.131	73.839	25.117	1.00	100.07	A
ATOM	921	CB	ASP	A	125	3.710	74.842	26.199	1.00	71.33	A
ATOM	922	CG	ASP	A	125	2.506	74.361	27.017	1.00	71.33	A
ATOM	923	OD1	ASP	A	125	1.415	74.196	26.440	1.00	71.33	A
ATOM	924	OD2	ASP	A	125	2.648	74.143	28.241	1.00	71.33	A
ATOM	925	C	ASP	A	125	5.666	73.702	25.089	1.00	100.07	A
ATOM	926	O	ASP	A	125	6.229	73.191	24.122	1.00	100.07	A
ATOM	927	N	LEU	A	126	6.333	74.162	26.146	1.00	27.66	A
ATOM	928	CA	LEU	A	126	7.789	74.085	26.264	1.00	27.66	A
ATOM	929	CB	LEU	A	126	8.174	72.657	26.651	1.00	48.42	A
ATOM	930	CG	LEU	A	126	9.651	72.263	26.779	1.00	48.42	A
ATOM	931	CD1	LEU	A	126	10.257	72.842	28.048	1.00	48.42	A
ATOM	932	CD2	LEU	A	126	9.759	70.747	26.804	1.00	48.42	A
ATOM	933	C	LEU	A	126	8.538	74.486	24.989	1.00	27.66	A
ATOM	934	O	LEU	A	126	9.587	73.915	24.698	1.00	27.66	A
ATOM	935	N	HIS	A	127	8.018	75.469	24.249	1.00	55.30	A
ATOM	936	CA	HIS	A	127	8.623	75.917	22.982	1.00	55.30	A
ATOM	937	CB	HIS	A	127	8.847	77.433	22.963	1.00	78.31	A
ATOM	938	CG	HIS	A	127	9.335	77.957	21.640	1.00	78.31	A
ATOM	939	CD2	HIS	A	127	8.997	79.067	20.940	1.00	78.31	A
ATOM	940	ND1	HIS	A	127	10.305	77.318	20.894	1.00	78.31	A
ATOM	941	CE1	HIS	A	127	10.541	78.011	19.794	1.00	78.31	A
ATOM	942	NE2	HIS	A	127	9.761	79.077	19.797	1.00	78.31	A
ATOM	943	C	HIS	A	127	9.945	75.246	22.645	1.00	55.30	A
ATOM	944	O	HIS	A	127	11.003	75.862	22.756	1.00	55.30	A
ATOM	945	N	ILE	A	128	9.900	73.992	22.224	1.00	32.89	A
ATOM	946	CA	ILE	A	128	11.143	73.328	21.912	1.00	32.89	A
ATOM	947	CB	ILE	A	128	10.933	71.841	21.579	1.00	28.75	A
ATOM	948	CG2	ILE	A	128	11.983	71.355	20.562	1.00	28.75	A
ATOM	949	CG1	ILE	A	128	10.986	71.030	22.871	1.00	28.75	A
ATOM	950	CD	ILE	A	128	11.375	69.573	22.673	1.00	28.75	A
ATOM	951	C	ILE	A	128	11.870	73.994	20.762	1.00	32.89	A
ATOM	952	O	ILE	A	128	13.098	74.063	20.783	1.00	32.89	A
ATOM	953	N	ALA	A	129	11.150	74.484	19.755	1.00	35.51	A
ATOM	954	CA	ALA	A	129	11.844	75.135	18.640	1.00	35.51	A
ATOM	955	CB	ALA	A	129	12.968	74.222	18.105	1.00	64.61	A
ATOM	956	C	ALA	A	129	11.002	75.620	17.468	1.00	35.51	A
ATOM	957	O	ALA	A	129	10.142	74.912	16.941	1.00	35.51	A
ATOM	958	N	THR	A	130	11.284	76.847	17.062	1.00	56.00	A
ATOM	959	CA	THR	A	130	10.614	77.454	15.938	1.00	56.00	A
ATOM	960	CB	THR	A	130	10.783	78.977	15.963	1.00	97.43	A
ATOM	961	OG1	THR	A	130	10.089	79.515	17.095	1.00	97.43	A
ATOM	962	CG2	THR	A	130	10.263	79.600	14.668	1.00	97.43	A
ATOM	963	C	THR	A	130	11.324	76.926	14.716	1.00	56.00	A
ATOM	964	O	THR	A	130	12.433	76.425	14.819	1.00	56.00	A
ATOM	965	N	LEU	A	131	10.678	77.017	13.566	1.00	96.96	A
ATOM	966	CA	LEU	A	131	11.262	76.591	12.303	1.00	96.96	A
ATOM	967	CB	LEU	A	131	11.596	75.069	12.278	1.00	14.70	A
ATOM	968	CG	LEU	A	131	10.673	73.901	12.679	1.00	14.70	A
ATOM	969	CD1	LEU	A	131	9.538	73.750	11.686	1.00	14.70	A
ATOM	970	CD2	LEU	A	131	11.487	72.612	12.725	1.00	14.70	A

ATOM	971	C	LEU A 131	10.225	76.982	11.276	1.00	96.96	A
ATOM	972	O	LEU A 131	9.037	77.057	11.586	1.00	96.96	A
ATOM	973	N	GLU A 132	10.676	77.294	10.071	1.00	33.61	A
ATOM	974	CA	GLU A 132	9.758	77.690	9.030	1.00	33.61	A
ATOM	975	CB	GLU A 132	9.275	79.126	9.262	1.00	100.07	A
ATOM	976	CG	GLU A 132	10.357	80.190	9.227	1.00	100.07	A
ATOM	977	CD	GLU A 132	9.840	81.549	9.680	1.00	100.07	A
ATOM	978	OE1	GLU A 132	9.431	81.657	10.860	1.00	100.07	A
ATOM	979	OE2	GLU A 132	9.838	82.502	8.863	1.00	100.07	A
ATOM	980	C	GLU A 132	10.375	77.546	7.658	1.00	33.61	A
ATOM	981	O	GLU A 132	11.603	77.496	7.520	1.00	33.61	A
ATOM	982	N	GLU A 133	9.488	77.448	6.667	1.00	83.31	A
ATOM	983	CA	GLU A 133	9.816	77.309	5.253	1.00	83.31	A
ATOM	984	CB	GLU A 133	10.514	78.582	4.768	1.00	100.07	A
ATOM	985	CG	GLU A 133	10.593	78.703	3.256	1.00	100.07	A
ATOM	986	CD	GLU A 133	11.146	80.045	2.793	1.00	100.07	A
ATOM	987	OE1	GLU A 133	10.642	81.092	3.266	1.00	100.07	A
ATOM	988	OE2	GLU A 133	12.072	80.049	1.946	1.00	100.07	A
ATOM	989	C	GLU A 133	10.652	76.073	4.879	1.00	83.31	A
ATOM	990	O	GLU A 133	10.635	75.630	3.728	1.00	83.31	A
ATOM	991	N	GLY A 134	11.370	75.504	5.841	1.00	99.81	A
ATOM	992	CA	GLY A 134	12.190	74.345	5.535	1.00	99.81	A
ATOM	993	C	GLY A 134	12.147	73.242	6.571	1.00	99.81	A
ATOM	994	O	GLY A 134	13.135	72.953	7.251	1.00	99.81	A
ATOM	995	N	GLY A 135	10.986	72.615	6.678	1.00	100.07	A
ATOM	996	CA	GLY A 135	10.808	71.535	7.625	1.00	100.07	A
ATOM	997	C	GLY A 135	11.883	70.469	7.656	1.00	100.07	A
ATOM	998	O	GLY A 135	11.861	69.498	6.894	1.00	100.07	A
ATOM	999	N	LYS A 136	12.828	70.642	8.561	1.00	72.43	A
ATOM	1000	CA	LYS A 136	13.899	69.685	8.702	1.00	72.43	A
ATOM	1001	CB	LYS A 136	15.189	70.282	8.133	1.00	100.07	A
ATOM	1002	CG	LYS A 136	16.330	69.291	7.911	1.00	100.07	A
ATOM	1003	CD	LYS A 136	16.063	68.365	6.724	1.00	100.07	A
ATOM	1004	CE	LYS A 136	17.254	67.452	6.455	1.00	100.07	A
ATOM	1005	NZ	LYS A 136	16.977	66.466	5.374	1.00	100.07	A
ATOM	1006	C	LYS A 136	14.006	69.535	10.199	1.00	72.43	A
ATOM	1007	O	LYS A 136	14.514	70.438	10.852	1.00	72.43	A
ATOM	1008	N	LEU A 137	13.513	68.441	10.774	1.00	56.42	A
ATOM	1009	CA	LEU A 137	13.650	68.333	12.220	1.00	56.42	A
ATOM	1010	CB	LEU A 137	12.468	69.017	12.903	1.00	27.01	A
ATOM	1011	CG	LEU A 137	12.654	69.167	14.421	1.00	27.01	A
ATOM	1012	CD1	LEU A 137	14.017	69.743	14.728	1.00	27.01	A
ATOM	1013	CD2	LEU A 137	11.548	70.047	14.998	1.00	27.01	A
ATOM	1014	C	LEU A 137	13.904	66.971	12.866	1.00	56.42	A
ATOM	1015	O	LEU A 137	14.781	66.865	13.726	1.00	56.42	A
ATOM	1016	N	TYR A 138	13.160	65.942	12.463	1.00	42.82	A
ATOM	1017	CA	TYR A 138	13.313	64.596	13.041	1.00	42.82	A
ATOM	1018	CB	TYR A 138	13.670	63.566	11.961	1.00	53.06	A
ATOM	1019	CG	TYR A 138	13.835	62.165	12.522	1.00	53.06	A
ATOM	1020	CD1	TYR A 138	12.800	61.560	13.238	1.00	53.06	A
ATOM	1021	CE1	TYR A 138	12.951	60.307	13.817	1.00	53.06	A
ATOM	1022	CD2	TYR A 138	15.034	61.467	12.390	1.00	53.06	A
ATOM	1023	CE2	TYR A 138	15.195	60.203	12.968	1.00	53.06	A
ATOM	1024	CZ	TYR A 138	14.145	59.639	13.687	1.00	53.06	A
ATOM	1025	OH	TYR A 138	14.297	58.439	14.329	1.00	53.06	A
ATOM	1026	C	TYR A 138	14.350	64.479	14.164	1.00	42.82	A
ATOM	1027	O	TYR A 138	15.546	64.369	13.897	1.00	42.82	A
ATOM	1028	N	MET A 139	13.881	64.498	15.411	1.00	77.85	A
ATOM	1029	CA	MET A 139	14.761	64.385	16.572	1.00	77.85	A
ATOM	1030	CB	MET A 139	14.628	65.614	17.464	1.00	100.07	A
ATOM	1031	CG	MET A 139	14.947	66.909	16.760	1.00	100.07	A
ATOM	1032	SD	MET A 139	15.042	68.272	17.916	1.00	100.07	A
ATOM	1033	CE	MET A 139	13.373	68.931	17.827	1.00	100.07	A
ATOM	1034	C	MET A 139	14.455	63.137	17.395	1.00	77.85	A
ATOM	1035	O	MET A 139	13.321	62.915	17.812	1.00	77.85	A
ATOM	1036	N	GLU A 140	15.477	62.327	17.631	1.00	29.15	A
ATOM	1037	CA	GLU A 140	15.324	61.100	18.387	1.00	29.15	A
ATOM	1038	CB	GLU A 140	15.984	59.966	17.604	1.00	74.04	A
ATOM	1039	CG	GLU A 140	15.658	58.564	18.069	1.00	74.04	A
ATOM	1040	CD	GLU A 140	16.472	57.505	17.331	1.00	74.04	A
ATOM	1041	OE1	GLU A 140	17.696	57.415	17.574	1.00	74.04	A
ATOM	1042	OE2	GLU A 140	15.892	56.766	16.504	1.00	74.04	A
ATOM	1043	C	GLU A 140	16.079	61.368	19.685	1.00	29.15	A
ATOM	1044	O	GLU A 140	17.310	61.253	19.707	1.00	29.15	A
ATOM	1045	N	VAL A 141	15.354	61.701	20.765	1.00	7.41	A
ATOM	1046	CA	VAL A 141	15.979	62.060	22.059	1.00	7.41	A
ATOM	1047	CB	VAL A 141	15.594	63.490	22.436	1.00	73.37	A
ATOM	1048	CG1	VAL A 141	14.110	63.667	22.270	1.00	73.37	A
ATOM	1049	CG2	VAL A 141	15.979	63.775	23.874	1.00	73.37	A
ATOM	1050	C	VAL A 141	15.735	61.219	23.301	1.00	7.41	A
ATOM	1051	O	VAL A 141	14.745	61.401	23.987	1.00	7.41	A
ATOM	1052	N	ARG A 142	16.675	60.353	23.631	1.00	25.95	A
ATOM	1053	CA	ARG A 142	16.529	59.479	24.789	1.00	25.95	A
ATOM	1054	CB	ARG A 142	17.838	58.742	25.040	1.00	45.39	A

ATOM	1055	CG	ARG	A	142	17.775	57.735	26.157	1.00	45.39	A
ATOM	1056	CD	ARG	A	142	19.112	57.119	26.362	1.00	45.39	A
ATOM	1057	NE	ARG	A	142	19.050	56.066	27.351	1.00	45.39	A
ATOM	1058	CZ	ARG	A	142	20.061	55.753	28.146	1.00	45.39	A
ATOM	1059	NH1	ARG	A	142	21.197	56.430	28.051	1.00	45.39	A
ATOM	1060	NH2	ARG	A	142	19.939	54.768	29.030	1.00	45.39	A
ATOM	1061	C	ARG	A	142	16.148	60.222	26.057	1.00	25.95	A
ATOM	1062	O	ARG	A	142	16.176	61.443	26.086	1.00	25.95	A
ATOM	1063	N	VAL	A	143	15.795	59.455	27.092	1.00	100.07	A
ATOM	1064	CA	VAL	A	143	15.426	59.953	28.421	1.00	100.07	A
ATOM	1065	CB	VAL	A	143	13.951	60.446	28.483	1.00	100.07	A
ATOM	1066	CG1	VAL	A	143	13.727	61.579	27.495	1.00	100.07	A
ATOM	1067	CG2	VAL	A	143	13.007	59.312	28.189	1.00	100.07	A
ATOM	1068	C	VAL	A	143	15.616	58.797	29.416	1.00	100.07	A
ATOM	1069	O	VAL	A	143	15.115	57.694	29.202	1.00	100.07	A
ATOM	1070	N	ASP	A	144	16.332	59.053	30.506	1.00	51.55	A
ATOM	1071	CA	ASP	A	144	16.632	58.012	31.495	1.00	51.55	A
ATOM	1072	CB	ASP	A	144	18.153	57.902	31.686	1.00	39.57	A
ATOM	1073	CG	ASP	A	144	18.863	57.204	30.532	1.00	39.57	A
ATOM	1074	OD1	ASP	A	144	18.664	57.585	29.353	1.00	39.57	A
ATOM	1075	OD2	ASP	A	144	19.645	56.272	30.822	1.00	39.57	A
ATOM	1076	C	ASP	A	144	16.017	58.180	32.881	1.00	51.55	A
ATOM	1077	O	ASP	A	144	15.578	59.262	33.263	1.00	51.55	A
ATOM	1078	N	ARG	A	145	16.003	57.093	33.644	1.00	64.20	A
ATOM	1079	CA	ARG	A	145	15.492	57.149	35.001	1.00	64.20	A
ATOM	1080	CB	ARG	A	145	15.285	55.736	35.561	1.00	99.82	A
ATOM	1081	CG	ARG	A	145	14.184	55.627	36.619	1.00	99.82	A
ATOM	1082	CD	ARG	A	145	12.803	55.635	35.970	1.00	99.82	A
ATOM	1083	NE	ARG	A	145	11.743	56.001	36.906	1.00	99.82	A
ATOM	1084	CZ	ARG	A	145	10.455	56.077	36.585	1.00	99.82	A
ATOM	1085	NH1	ARG	A	145	10.059	55.806	35.351	1.00	99.82	A
ATOM	1086	NH2	ARG	A	145	9.565	56.442	37.494	1.00	99.82	A
ATOM	1087	C	ARG	A	145	16.642	57.841	35.721	1.00	64.20	A
ATOM	1088	O	ARG	A	145	17.790	57.689	35.318	1.00	64.20	A
ATOM	1089	N	GLY	A	146	16.368	58.608	36.766	1.00	85.65	A
ATOM	1090	CA	GLY	A	146	17.482	59.259	37.424	1.00	85.65	A
ATOM	1091	C	GLY	A	146	17.289	59.789	38.825	1.00	85.65	A
ATOM	1092	O	GLY	A	146	16.175	59.926	39.330	1.00	85.65	A
ATOM	1093	N	VAL	A	147	18.421	60.099	39.443	1.00	74.35	A
ATOM	1094	CA	VAL	A	147	18.476	60.624	40.792	1.00	74.35	A
ATOM	1095	CB	VAL	A	147	18.627	59.499	41.796	1.00	36.54	A
ATOM	1096	CG1	VAL	A	147	18.898	60.070	43.181	1.00	36.54	A
ATOM	1097	CG2	VAL	A	147	17.383	58.628	41.771	1.00	36.54	A
ATOM	1098	C	VAL	A	147	19.695	61.514	40.878	1.00	74.35	A
ATOM	1099	O	VAL	A	147	20.760	61.174	40.357	1.00	74.35	A
ATOM	1100	N	GLY	A	148	19.547	62.650	41.538	1.00	50.28	A
ATOM	1101	CA	GLY	A	148	20.673	63.553	41.650	1.00	50.28	A
ATOM	1102	C	GLY	A	148	20.896	64.253	40.322	1.00	50.28	A
ATOM	1103	O	GLY	A	148	20.062	64.160	39.411	1.00	50.28	A
ATOM	1104	N	TYR	A	149	22.031	64.941	40.212	1.00	65.06	A
ATOM	1105	CA	TYR	A	149	22.396	65.694	39.015	1.00	65.06	A
ATOM	1106	CB	TYR	A	149	22.614	67.157	39.419	1.00	46.08	A
ATOM	1107	CG	TYR	A	149	23.368	68.042	38.448	1.00	46.08	A
ATOM	1108	CD1	TYR	A	149	23.036	68.092	37.098	1.00	46.08	A
ATOM	1109	CE1	TYR	A	149	23.700	68.964	36.226	1.00	46.08	A
ATOM	1110	CD2	TYR	A	149	24.385	68.882	38.904	1.00	46.08	A
ATOM	1111	CE2	TYR	A	149	25.052	69.750	38.043	1.00	46.08	A
ATOM	1112	CZ	TYR	A	149	24.708	69.787	36.708	1.00	46.08	A
ATOM	1113	OH	TYR	A	149	25.384	70.637	35.866	1.00	46.08	A
ATOM	1114	C	TYR	A	149	23.645	65.122	38.380	1.00	65.06	A
ATOM	1115	O	TYR	A	149	24.665	64.975	39.043	1.00	65.06	A
ATOM	1116	N	VAL	A	150	23.557	64.778	37.100	1.00	45.82	A
ATOM	1117	CA	VAL	A	150	24.702	64.230	36.381	1.00	45.82	A
ATOM	1118	CB	VAL	A	150	24.612	62.709	36.233	1.00	23.65	A
ATOM	1119	CG1	VAL	A	150	25.897	62.185	35.631	1.00	23.65	A
ATOM	1120	CG2	VAL	A	150	24.388	62.075	37.588	1.00	23.65	A
ATOM	1121	C	VAL	A	150	24.774	64.872	35.012	1.00	45.82	A
ATOM	1122	O	VAL	A	150	23.782	64.947	34.298	1.00	45.82	A
ATOM	1123	N	PRO	A	151	25.962	65.347	34.630	1.00	38.98	A
ATOM	1124	CD	PRO	A	151	27.109	65.558	35.532	1.00	32.54	A
ATOM	1125	CA	PRO	A	151	26.179	66.006	33.340	1.00	38.98	A
ATOM	1126	CB	PRO	A	151	26.842	67.290	33.764	1.00	32.54	A
ATOM	1127	CG	PRO	A	151	27.754	66.801	34.962	1.00	32.54	A
ATOM	1128	C	PRO	A	151	27.057	65.214	32.397	1.00	38.98	A
ATOM	1129	O	PRO	A	151	27.363	64.055	32.666	1.00	38.98	A
ATOM	1130	N	ALA	A	152	27.456	65.851	31.296	1.00	38.13	A
ATOM	1131	CA	ALA	A	152	28.338	65.221	30.315	1.00	38.13	A
ATOM	1132	CB	ALA	A	152	28.853	66.249	29.321	1.00	57.22	A
ATOM	1133	C	ALA	A	152	29.507	64.555	31.041	1.00	38.13	A
ATOM	1134	O	ALA	A	152	30.630	65.079	31.115	1.00	38.13	A
ATOM	1135	N	GLU	A	153	29.184	63.394	31.595	1.00	100.07	A
ATOM	1136	CA	GLU	A	153	30.083	62.531	32.330	1.00	100.07	A
ATOM	1137	CB	GLU	A	153	29.921	62.750	33.830	1.00	63.28	A
ATOM	1138	CG	GLU	A	153	30.804	61.861	34.672	1.00	63.28	A

ATOM	1139	CD	GLU	A	153	30.083	61.327	35.895	1.00	63.28	A
ATOM	1140	OE1	GLU	A	153	29.707	62.134	36.775	1.00	63.28	A
ATOM	1141	OE2	GLU	A	153	29.884	60.094	35.972	1.00	63.28	A
ATOM	1142	C	GLU	A	153	29.514	61.186	31.918	1.00	100.07	A
ATOM	1143	O	GLU	A	153	30.248	60.266	31.557	1.00	100.07	A
ATOM	1144	N	ARG	A	154	28.184	61.101	31.948	1.00	97.84	A
ATOM	1145	CA	ARG	A	154	27.480	59.892	31.549	1.00	97.84	A
ATOM	1146	CB	ARG	A	154	26.333	59.588	32.509	1.00	100.07	A
ATOM	1147	CG	ARG	A	154	26.835	59.067	33.858	1.00	100.07	A
ATOM	1148	CD	ARG	A	154	25.753	58.328	34.644	1.00	100.07	A
ATOM	1149	NE	ARG	A	154	26.273	57.725	35.874	1.00	100.07	A
ATOM	1150	CZ	ARG	A	154	25.573	56.915	36.665	1.00	100.07	A
ATOM	1151	NH1	ARG	A	154	24.319	56.607	36.358	1.00	100.07	A
ATOM	1152	NH2	ARG	A	154	26.128	56.407	37.760	1.00	100.07	A
ATOM	1153	C	ARG	A	154	26.980	60.063	30.130	1.00	97.84	A
ATOM	1154	O	ARG	A	154	25.929	60.668	29.889	1.00	97.84	A
ATOM	1155	N	HIS	A	155	27.777	59.526	29.206	1.00	33.73	A
ATOM	1156	CA	HIS	A	155	27.547	59.567	27.759	1.00	33.73	A
ATOM	1157	CB	HIS	A	155	28.605	58.703	27.087	1.00	100.07	A
ATOM	1158	CG	HIS	A	155	28.798	57.374	27.753	1.00	100.07	A
ATOM	1159	CD2	HIS	A	155	28.156	56.191	27.590	1.00	100.07	A
ATOM	1160	ND1	HIS	A	155	29.743	57.164	28.734	1.00	100.07	A
ATOM	1161	CE1	HIS	A	155	29.680	55.908	29.141	1.00	100.07	A
ATOM	1162	NE2	HIS	A	155	28.725	55.296	28.462	1.00	100.07	A
ATOM	1163	C	HIS	A	155	26.181	59.164	27.167	1.00	33.73	A
ATOM	1164	O	HIS	A	155	25.329	58.515	27.808	1.00	33.73	A
ATOM	1165	N	GLY	A	156	26.008	59.551	25.906	1.00	73.63	A
ATOM	1166	CA	GLY	A	156	24.810	59.225	25.156	1.00	73.63	A
ATOM	1167	C	GLY	A	156	25.191	58.230	24.065	1.00	73.63	A
ATOM	1168	O	GLY	A	156	24.863	58.409	22.889	1.00	73.63	A
ATOM	1169	N	ILE	A	157	25.909	57.180	24.462	1.00	100.07	A
ATOM	1170	CA	ILE	A	157	26.344	56.139	23.535	1.00	100.07	A
ATOM	1171	CB	ILE	A	157	27.412	55.195	24.182	1.00	100.07	A
ATOM	1172	CG2	ILE	A	157	27.894	54.156	23.169	1.00	100.07	A
ATOM	1173	CG1	ILE	A	157	28.614	56.005	24.683	1.00	100.07	A
ATOM	1174	CD	ILE	A	157	29.309	56.847	23.646	1.00	100.07	A
ATOM	1175	C	ILE	A	157	25.139	55.307	23.103	1.00	100.07	A
ATOM	1176	O	ILE	A	157	25.145	54.081	23.220	1.00	100.07	A
ATOM	1177	N	LYS	A	158	24.103	55.985	22.615	1.00	86.89	A
ATOM	1178	CA	LYS	A	158	22.887	55.322	22.154	1.00	86.89	A
ATOM	1179	CB	LYS	A	158	21.673	56.195	22.471	1.00	94.08	A
ATOM	1180	CG	LYS	A	158	20.346	55.588	22.071	1.00	94.08	A
ATOM	1181	CD	LYS	A	158	19.275	56.658	21.978	1.00	94.08	A
ATOM	1182	CE	LYS	A	158	18.080	56.183	21.166	1.00	94.08	A
ATOM	1183	NZ	LYS	A	158	17.231	57.331	20.740	1.00	94.08	A
ATOM	1184	C	LYS	A	158	23.019	55.136	20.647	1.00	86.89	A
ATOM	1185	O	LYS	A	158	23.473	54.091	20.170	1.00	86.89	A
ATOM	1186	N	ASP	A	159	22.618	56.159	19.902	1.00	37.45	A
ATOM	1187	CA	ASP	A	159	22.722	56.139	18.448	1.00	37.45	A
ATOM	1188	CB	ASP	A	159	21.834	57.243	17.857	1.00	100.07	A
ATOM	1189	CG	ASP	A	159	21.704	57.154	16.349	1.00	100.07	A
ATOM	1190	OD1	ASP	A	159	22.702	57.415	15.642	1.00	100.07	A
ATOM	1191	OD2	ASP	A	159	20.598	56.825	15.869	1.00	100.07	A
ATOM	1192	C	ASP	A	159	24.198	56.424	18.190	1.00	37.45	A
ATOM	1193	O	ASP	A	159	24.554	57.212	17.305	1.00	37.45	A
ATOM	1194	N	ARG	A	160	25.040	55.776	18.998	1.00	100.07	A
ATOM	1195	CA	ARG	A	160	26.490	55.930	18.945	1.00	100.07	A
ATOM	1196	CB	ARG	A	160	27.194	54.577	19.099	1.00	100.07	A
ATOM	1197	CG	ARG	A	160	28.723	54.671	18.980	1.00	100.07	A
ATOM	1198	CD	ARG	A	160	29.369	55.377	20.176	1.00	100.07	A
ATOM	1199	NE	ARG	A	160	30.564	56.136	19.801	1.00	100.07	A
ATOM	1200	CZ	ARG	A	160	31.557	56.443	20.634	1.00	100.07	A
ATOM	1201	NH1	ARG	A	160	31.515	56.051	21.903	1.00	100.07	A
ATOM	1202	NH2	ARG	A	160	32.592	57.152	20.199	1.00	100.07	A
ATOM	1203	C	ARG	A	160	26.941	56.589	17.664	1.00	100.07	A
ATOM	1204	O	ARG	A	160	27.352	55.892	16.737	1.00	100.07	A
ATOM	1205	N	ILE	A	161	26.860	57.922	17.610	1.00	52.94	A
ATOM	1206	CA	ILE	A	161	27.275	58.641	16.413	1.00	52.94	A
ATOM	1207	CB	ILE	A	161	26.764	57.886	15.141	1.00	60.99	A
ATOM	1208	CG2	ILE	A	161	26.149	58.843	14.152	1.00	60.99	A
ATOM	1209	CG1	ILE	A	161	27.925	57.115	14.500	1.00	60.99	A
ATOM	1210	CD	ILE	A	161	27.504	55.849	13.786	1.00	60.99	A
ATOM	1211	C	ILE	A	161	26.923	60.117	16.264	1.00	52.94	A
ATOM	1212	O	ILE	A	161	27.590	60.840	15.522	1.00	52.94	A
ATOM	1213	N	ASN	A	162	25.878	60.572	16.939	1.00	99.95	A
ATOM	1214	CA	ASN	A	162	25.502	61.975	16.837	1.00	99.95	A
ATOM	1215	CB	ASN	A	162	24.505	62.166	15.694	1.00	96.68	A
ATOM	1216	CG	ASN	A	162	24.995	61.559	14.386	1.00	96.68	A
ATOM	1217	OD1	ASN	A	162	26.119	61.810	13.947	1.00	96.68	A
ATOM	1218	ND2	ASN	A	162	24.146	60.756	13.757	1.00	96.68	A
ATOM	1219	C	ASN	A	162	24.905	62.399	18.163	1.00	99.95	A
ATOM	1220	O	ASN	A	162	24.515	63.544	18.365	1.00	99.95	A
ATOM	1221	N	ALA	A	163	24.872	61.437	19.066	1.00	51.97	A
ATOM	1222	CA	ALA	A	163	24.337	61.587	20.402	1.00	51.97	A

ATOM	1223	CB	ALA A 163	25.087	60.647	21.333	1.00100.07	A
ATOM	1224	C	ALA A 163	24.279	62.980	21.037	1.00 51.97	A
ATOM	1225	O	ALA A 163	23.253	63.358	21.607	1.00 51.97	A
ATOM	1226	N	ILE A 164	25.369	63.737	20.948	1.00 40.41	A
ATOM	1227	CA	ILE A 164	25.456	65.060	21.588	1.00 40.41	A
ATOM	1228	CB	ILE A 164	24.715	66.208	20.805	1.00 22.84	A
ATOM	1229	CG2	ILE A 164	25.247	66.343	19.377	1.00 22.84	A
ATOM	1230	CG1	ILE A 164	23.215	65.966	20.793	1.00 22.84	A
ATOM	1231	CD	ILE A 164	22.472	67.120	20.245	1.00 22.84	A
ATOM	1232	C	ILE A 164	24.834	64.991	22.976	1.00 40.41	A
ATOM	1233	O	ILE A 164	24.163	65.921	23.396	1.00 40.41	A
ATOM	1234	N	PRO A 165	25.101	63.912	23.728	1.00 16.22	A
ATOM	1235	CD	PRO A 165	26.390	63.209	23.641	1.00 26.38	A
ATOM	1236	CA	PRO A 165	24.531	63.743	25.075	1.00 16.22	A
ATOM	1237	CB	PRO A 165	25.573	62.880	25.799	1.00 26.38	A
ATOM	1238	CG	PRO A 165	26.835	63.215	25.077	1.00 26.38	A
ATOM	1239	C	PRO A 165	24.240	65.048	25.793	1.00 16.22	A
ATOM	1240	O	PRO A 165	25.107	65.913	25.890	1.00 16.22	A
ATOM	1241	N	VAL A 166	23.003	65.197	26.256	1.00 48.47	A
ATOM	1242	CA	VAL A 166	22.601	66.395	26.971	1.00 48.47	A
ATOM	1243	CB	VAL A 166	21.175	66.826	26.611	1.00 39.93	A
ATOM	1244	CG1	VAL A 166	20.750	67.993	27.472	1.00 39.93	A
ATOM	1245	CG2	VAL A 166	21.121	67.231	25.174	1.00 39.93	A
ATOM	1246	C	VAL A 166	22.680	66.107	28.453	1.00 48.47	A
ATOM	1247	O	VAL A 166	22.681	64.943	28.875	1.00 48.47	A
ATOM	1248	N	ASP A 167	22.754	67.174	29.240	1.00 51.97	A
ATOM	1249	CA	ASP A 167	22.861	67.049	30.679	1.00 51.97	A
ATOM	1250	CB	ASP A 167	23.156	68.417	31.292	1.00 67.98	A
ATOM	1251	CG	ASP A 167	24.547	68.917	30.956	1.00 67.98	A
ATOM	1252	OD1	ASP A 167	25.538	68.343	31.461	1.00 67.98	A
ATOM	1253	OD2	ASP A 167	24.646	69.885	30.178	1.00 67.98	A
ATOM	1254	C	ASP A 167	21.621	66.456	31.316	1.00 51.97	A
ATOM	1255	O	ASP A 167	20.568	66.354	30.690	1.00 51.97	A
ATOM	1256	N	ALA A 168	21.769	66.051	32.570	1.00 49.41	A
ATOM	1257	CA	ALA A 168	20.669	65.486	33.333	1.00 49.41	A
ATOM	1258	CB	ALA A 168	21.119	64.225	34.076	1.00100.07	A
ATOM	1259	C	ALA A 168	20.158	66.525	34.328	1.00 49.41	A
ATOM	1260	O	ALA A 168	20.790	67.541	34.598	1.00 49.41	A
ATOM	1261	N	ILE A 169	18.981	66.271	34.851	1.00 47.41	A
ATOM	1262	CA	ILE A 169	18.382	67.153	35.809	1.00 47.41	A
ATOM	1263	CB	ILE A 169	17.881	68.479	35.193	1.00100.07	A
ATOM	1264	CG2	ILE A 169	18.325	69.629	36.057	1.00100.07	A
ATOM	1265	CG1	ILE A 169	18.410	68.675	33.774	1.00100.07	A
ATOM	1266	CD	ILE A 169	17.772	67.765	32.752	1.00100.07	A
ATOM	1267	C	ILE A 169	17.193	66.341	36.232	1.00 47.41	A
ATOM	1268	O	ILE A 169	16.077	66.563	35.763	1.00 47.41	A
ATOM	1269	N	PHE A 170	17.437	65.364	37.091	1.00 56.10	A
ATOM	1270	CA	PHE A 170	16.359	64.515	37.552	1.00 56.10	A
ATOM	1271	CB	PHE A 170	16.939	63.223	38.115	1.00 52.95	A
ATOM	1272	CG	PHE A 170	17.797	62.481	37.132	1.00 52.95	A
ATOM	1273	CD1	PHE A 170	17.279	62.070	35.907	1.00 52.95	A
ATOM	1274	CD2	PHE A 170	19.125	62.197	37.422	1.00 52.95	A
ATOM	1275	CE1	PHE A 170	18.072	61.392	34.994	1.00 52.95	A
ATOM	1276	CE2	PHE A 170	19.923	61.516	36.510	1.00 52.95	A
ATOM	1277	CZ	PHE A 170	19.396	61.115	35.298	1.00 52.95	A
ATOM	1278	C	PHE A 170	15.510	65.248	38.595	1.00 56.10	A
ATOM	1279	O	PHE A 170	14.856	66.241	38.274	1.00 56.10	A
ATOM	1280	N	SER A 171	15.532	64.761	39.834	1.00 56.78	A
ATOM	1281	CA	SER A 171	14.767	65.346	40.936	1.00 56.78	A
ATOM	1282	CB	SER A 171	15.698	65.978	41.967	1.00 41.35	A
ATOM	1283	OG	SER A 171	14.944	66.683	42.937	1.00 41.35	A
ATOM	1284	C	SER A 171	13.739	66.380	40.513	1.00 56.78	A
ATOM	1285	O	SER A 171	14.081	67.507	40.180	1.00 56.78	A
ATOM	1286	N	PRO A 172	12.456	66.013	40.543	1.00 38.33	A
ATOM	1287	CD	PRO A 172	11.908	64.678	40.827	1.00 27.85	A
ATOM	1288	CA	PRO A 172	11.389	66.931	40.151	1.00 38.33	A
ATOM	1289	CB	PRO A 172	10.276	65.991	39.742	1.00 27.85	A
ATOM	1290	CG	PRO A 172	10.409	64.935	40.774	1.00 27.85	A
ATOM	1291	C	PRO A 172	10.942	67.887	41.228	1.00 38.33	A
ATOM	1292	O	PRO A 172	10.072	68.717	40.988	1.00 38.33	A
ATOM	1293	N	VAL A 173	11.496	67.758	42.424	1.00 21.94	A
ATOM	1294	CA	VAL A 173	11.142	68.684	43.481	1.00 21.94	A
ATOM	1295	CB	VAL A 173	11.833	68.295	44.775	1.00 56.09	A
ATOM	1296	CG1	VAL A 173	11.568	69.332	45.820	1.00 56.09	A
ATOM	1297	CG2	VAL A 173	11.333	66.934	45.235	1.00 56.09	A
ATOM	1298	C	VAL A 173	11.715	69.992	42.956	1.00 21.94	A
ATOM	1299	O	VAL A 173	12.922	70.083	42.732	1.00 21.94	A
ATOM	1300	N	ARG A 174	10.860	70.994	42.747	1.00 51.23	A
ATOM	1301	CA	ARG A 174	11.293	72.279	42.182	1.00 51.23	A
ATOM	1302	CB	ARG A 174	10.345	72.661	41.028	1.00100.00	A
ATOM	1303	CG	ARG A 174	10.795	73.840	40.182	1.00100.00	A
ATOM	1304	CD	ARG A 174	12.272	73.730	39.908	1.00100.00	A
ATOM	1305	NE	ARG A 174	12.736	74.650	38.880	1.00100.00	A
ATOM	1306	CZ	ARG A 174	14.021	74.882	38.630	1.00100.00	A

ATOM	1307	NH1	ARG	A	174	14.956	74.265	39.343	1.00100.00	A
ATOM	1308	NH2	ARG	A	174	14.376	75.714	37.656	1.00100.00	A
ATOM	1309	C	ARG	A	174	11.452	73.469	43.137	1.00 51.23	A
ATOM	1310	O	ARG	A	174	11.802	74.567	42.717	1.00 51.23	A
ATOM	1311	N	ARG	A	175	11.221	73.245	44.422	1.00 24.40	A
ATOM	1312	CA	ARG	A	175	11.333	74.302	45.419	1.00 24.40	A
ATOM	1313	CB	ARG	A	175	10.472	75.484	44.973	1.00 46.83	A
ATOM	1314	CG	ARG	A	175	10.416	76.649	45.911	1.00 46.83	A
ATOM	1315	CD	ARG	A	175	9.769	77.818	45.203	1.00 46.83	A
ATOM	1316	NE	ARG	A	175	9.080	78.729	46.115	1.00 46.83	A
ATOM	1317	CZ	ARG	A	175	8.459	79.841	45.725	1.00 46.83	A
ATOM	1318	NH1	ARG	A	175	8.449	80.181	44.437	1.00 46.83	A
ATOM	1319	NH2	ARG	A	175	7.837	80.608	46.616	1.00 46.83	A
ATOM	1320	C	ARG	A	175	10.808	73.652	46.703	1.00 24.40	A
ATOM	1321	O	ARG	A	175	9.964	72.769	46.633	1.00 24.40	A
ATOM	1322	N	VAL	A	176	11.312	74.057	47.864	1.00 50.40	A
ATOM	1323	CA	VAL	A	176	10.875	73.467	49.137	1.00 50.40	A
ATOM	1324	CB	VAL	A	176	11.639	72.126	49.452	1.00 5.23	A
ATOM	1325	CG1	VAL	A	176	11.188	71.565	50.791	1.00 5.23	A
ATOM	1326	CG2	VAL	A	176	11.447	71.110	48.351	1.00 5.23	A
ATOM	1327	C	VAL	A	176	11.108	74.403	50.333	1.00 50.40	A
ATOM	1328	O	VAL	A	176	12.242	74.536	50.827	1.00 50.40	A
ATOM	1329	N	ALA	A	177	10.038	75.040	50.802	1.00 73.68	A
ATOM	1330	CA	ALA	A	177	10.125	75.936	51.955	1.00 73.68	A
ATOM	1331	CB	ALA	A	177	9.717	77.367	51.551	1.00 18.59	A
ATOM	1332	C	ALA	A	177	9.208	75.400	53.057	1.00 73.68	A
ATOM	1333	O	ALA	A	177	8.647	74.312	52.927	1.00 73.68	A
ATOM	1334	N	PHE	A	178	9.082	76.144	54.148	1.00100.07	A
ATOM	1335	CA	PHE	A	178	8.196	75.751	55.239	1.00100.07	A
ATOM	1336	CB	PHE	A	178	8.518	74.313	55.714	1.00 30.14	A
ATOM	1337	CG	PHE	A	178	9.759	74.172	56.548	1.00 30.14	A
ATOM	1338	CD1	PHE	A	178	9.782	74.587	57.876	1.00 30.14	A
ATOM	1339	CD2	PHE	A	178	10.877	73.523	56.038	1.00 30.14	A
ATOM	1340	CE1	PHE	A	178	10.905	74.343	58.685	1.00 30.14	A
ATOM	1341	CE2	PHE	A	178	12.005	73.279	56.844	1.00 30.14	A
ATOM	1342	CZ	PHE	A	178	12.014	73.686	58.162	1.00 30.14	A
ATOM	1343	C	PHE	A	178	8.211	76.770	56.372	1.00100.07	A
ATOM	1344	O	PHE	A	178	8.983	77.725	56.325	1.00100.07	A
ATOM	1345	N	GLN	A	179	7.350	76.605	57.370	1.00 51.57	A
ATOM	1346	CA	GLN	A	179	7.318	77.579	58.457	1.00 51.57	A
ATOM	1347	CB	GLN	A	179	6.322	78.681	58.113	1.00 99.76	A
ATOM	1348	CG	GLN	A	179	6.833	79.639	57.071	1.00 99.76	A
ATOM	1349	CD	GLN	A	179	5.748	80.537	56.544	1.00 99.76	A
ATOM	1350	OE1	GLN	A	179	4.724	80.740	57.200	1.00 99.76	A
ATOM	1351	NE2	GLN	A	179	5.966	81.094	55.356	1.00 99.76	A
ATOM	1352	C	GLN	A	179	6.960	76.979	59.805	1.00 51.57	A
ATOM	1353	O	GLN	A	179	6.040	76.175	59.915	1.00 51.57	A
ATOM	1354	N	VAL	A	180	7.693	77.362	60.835	1.00 86.87	A
ATOM	1355	CA	VAL	A	180	7.386	76.852	62.154	1.00 86.87	A
ATOM	1356	CB	VAL	A	180	8.669	76.574	62.958	1.00 48.36	A
ATOM	1357	CG1	VAL	A	180	8.313	76.074	64.349	1.00 48.36	A
ATOM	1358	CG2	VAL	A	180	9.525	75.543	62.231	1.00 48.36	A
ATOM	1359	C	VAL	A	180	6.541	77.915	62.845	1.00 86.87	A
ATOM	1360	O	VAL	A	180	7.072	78.856	63.437	1.00 86.87	A
ATOM	1361	N	GLU	A	181	5.221	77.768	62.746	1.00100.07	A
ATOM	1362	CA	GLU	A	181	4.273	78.712	63.343	1.00100.07	A
ATOM	1363	CB	GLU	A	181	2.938	78.666	62.596	1.00 72.17	A
ATOM	1364	CG	GLU	A	181	3.031	78.951	61.128	1.00 72.17	A
ATOM	1365	CD	GLU	A	181	3.100	80.429	60.840	1.00 72.17	A
ATOM	1366	OE1	GLU	A	181	3.556	81.181	61.734	1.00 72.17	A
ATOM	1367	OE2	GLU	A	181	2.707	80.832	59.718	1.00 72.17	A
ATOM	1368	C	GLU	A	181	3.978	78.365	64.784	1.00100.07	A
ATOM	1369	O	GLU	A	181	4.394	77.320	65.290	1.00100.07	A
ATOM	1370	N	ASP	A	182	3.236	79.254	65.431	1.00 99.56	A
ATOM	1371	CA	ASP	A	182	2.823	79.048	66.805	1.00 99.56	A
ATOM	1372	CB	ASP	A	182	2.886	80.361	67.581	1.00100.07	A
ATOM	1373	CG	ASP	A	182	4.304	80.790	67.867	1.00100.07	A
ATOM	1374	OD1	ASP	A	182	5.052	79.988	68.473	1.00100.07	A
ATOM	1375	OD2	ASP	A	182	4.664	81.923	67.488	1.00100.07	A
ATOM	1376	C	ASP	A	182	1.391	78.534	66.733	1.00 99.56	A
ATOM	1377	O	ASP	A	182	0.493	79.223	66.240	1.00 99.56	A
ATOM	1378	N	THR	A	183	1.189	77.308	67.205	1.00100.07	A
ATOM	1379	CA	THR	A	183	-0.129	76.702	67.180	1.00100.07	A
ATOM	1380	CB	THR	A	183	-0.071	75.216	67.606	1.00100.07	A
ATOM	1381	OG1	THR	A	183	-1.405	74.709	67.744	1.00100.07	A
ATOM	1382	CG2	THR	A	183	0.677	75.057	68.924	1.00100.07	A
ATOM	1383	C	THR	A	183	-1.123	77.431	68.063	1.00100.07	A
ATOM	1384	O	THR	A	183	-1.615	78.512	67.708	1.00100.07	A
ATOM	1385	N	ARG	A	184	-1.393	76.822	69.217	1.00 69.50	A
ATOM	1386	CA	ARG	A	184	-2.334	77.313	70.216	1.00 69.50	A
ATOM	1387	CB	ARG	A	184	-3.382	78.244	69.568	1.00100.07	A
ATOM	1388	CG	ARG	A	184	-4.731	78.353	70.288	1.00100.07	A
ATOM	1389	CD	ARG	A	184	-5.779	77.375	69.723	1.00100.07	A
ATOM	1390	NE	ARG	A	184	-7.057	77.467	70.440	1.00100.07	A

ATOM	1391	CZ	ARG	A	184	-8.110	76.672	70.234	1.00100.07	A
ATOM	1392	NH1	ARG	A	184	-8.056	75.707	69.322	1.00100.07	A
ATOM	1393	NH2	ARG	A	184	-9.219	76.834	70.953	1.00100.07	A
ATOM	1394	C	ARG	A	184	-3.021	76.056	70.750	1.00 69.50	A
ATOM	1395	O	ARG	A	184	-3.281	75.096	70.013	1.00 69.50	A
ATOM	1396	N	LEU	A	185	-3.315	76.099	72.041	1.00100.07	A
ATOM	1397	CA	LEU	A	185	-3.944	75.016	72.775	1.00100.07	A
ATOM	1398	CB	LEU	A	185	-5.447	74.934	72.482	1.00 86.73	A
ATOM	1399	CG	LEU	A	185	-6.248	75.931	73.343	1.00 86.73	A
ATOM	1400	CD1	LEU	A	185	-7.725	75.600	73.244	1.00 86.73	A
ATOM	1401	CD2	LEU	A	185	-5.800	75.865	74.810	1.00 86.73	A
ATOM	1402	C	LEU	A	185	-3.293	73.641	72.709	1.00100.07	A
ATOM	1403	O	LEU	A	185	-3.091	73.043	71.649	1.00100.07	A
ATOM	1404	N	GLY	A	186	-2.973	73.175	73.910	1.00100.07	A
ATOM	1405	CA	GLY	A	186	-2.315	71.908	74.137	1.00100.07	A
ATOM	1406	C	GLY	A	186	-1.383	72.200	75.302	1.00100.07	A
ATOM	1407	O	GLY	A	186	-0.848	71.295	75.959	1.00100.07	A
ATOM	1408	N	GLN	A	187	-1.226	73.504	75.546	1.00100.07	A
ATOM	1409	CA	GLN	A	187	-0.386	74.080	76.597	1.00100.07	A
ATOM	1410	CB	GLN	A	187	0.836	73.186	76.860	1.00 98.59	A
ATOM	1411	CG	GLN	A	187	1.811	73.705	77.904	1.00 98.59	A
ATOM	1412	CD	GLN	A	187	2.936	72.722	78.190	1.00 98.59	A
ATOM	1413	OE1	GLN	A	187	3.609	72.250	77.276	1.00 98.59	A
ATOM	1414	NE2	GLN	A	187	3.146	72.414	79.464	1.00 98.59	A
ATOM	1415	C	GLN	A	187	0.065	75.445	76.086	1.00100.07	A
ATOM	1416	O	GLN	A	187	-0.259	75.827	74.960	1.00100.07	A
ATOM	1417	N	ARG	A	188	0.820	76.176	76.899	1.00 99.87	A
ATOM	1418	CA	ARG	A	188	1.279	77.503	76.506	1.00 99.87	A
ATOM	1419	CB	ARG	A	188	2.149	78.112	77.612	1.00100.07	A
ATOM	1420	CG	ARG	A	188	1.317	78.786	78.700	1.00100.07	A
ATOM	1421	CD	ARG	A	188	2.167	79.285	79.857	1.00100.07	A
ATOM	1422	NE	ARG	A	188	1.411	80.204	80.707	1.00100.07	A
ATOM	1423	CZ	ARG	A	188	1.877	80.766	81.820	1.00100.07	A
ATOM	1424	NH1	ARG	A	188	3.111	80.505	82.239	1.00100.07	A
ATOM	1425	NH2	ARG	A	188	1.107	81.602	82.509	1.00100.07	A
ATOM	1426	C	ARG	A	188	1.980	77.592	75.153	1.00 99.87	A
ATOM	1427	O	ARG	A	188	2.854	76.787	74.831	1.00 99.87	A
ATOM	1428	N	THR	A	189	1.559	78.587	74.374	1.00100.07	A
ATOM	1429	CA	THR	A	189	2.077	78.863	73.033	1.00100.07	A
ATOM	1430	CB	THR	A	189	2.503	80.348	72.881	1.00100.07	A
ATOM	1431	OG1	THR	A	189	1.332	81.167	72.741	1.00100.07	A
ATOM	1432	CG2	THR	A	189	3.408	80.534	71.651	1.00100.07	A
ATOM	1433	C	THR	A	189	3.238	77.991	72.568	1.00100.07	A
ATOM	1434	O	THR	A	189	3.096	77.227	71.605	1.00100.07	A
ATOM	1435	N	ASP	A	190	4.382	78.137	73.240	1.00 96.21	A
ATOM	1436	CA	ASP	A	190	5.588	77.376	72.926	1.00 96.21	A
ATOM	1437	CB	ASP	A	190	5.867	76.334	74.019	1.00 99.97	A
ATOM	1438	CG	ASP	A	190	6.367	76.943	75.313	1.00 99.97	A
ATOM	1439	OD1	ASP	A	190	7.403	77.643	75.273	1.00 99.97	A
ATOM	1440	OD2	ASP	A	190	5.732	76.708	76.368	1.00 99.97	A
ATOM	1441	C	ASP	A	190	5.452	76.630	71.616	1.00 96.21	A
ATOM	1442	O	ASP	A	190	5.961	77.051	70.580	1.00 96.21	A
ATOM	1443	N	LEU	A	191	4.745	75.510	71.706	1.00 88.88	A
ATOM	1444	CA	LEU	A	191	4.483	74.620	70.594	1.00 88.88	A
ATOM	1445	CB	LEU	A	191	3.076	74.051	70.700	1.00 82.14	A
ATOM	1446	CG	LEU	A	191	2.676	73.433	72.032	1.00 82.14	A
ATOM	1447	CD1	LEU	A	191	1.383	72.671	71.805	1.00 82.14	A
ATOM	1448	CD2	LEU	A	191	3.769	72.508	72.566	1.00 82.14	A
ATOM	1449	C	LEU	A	191	4.660	75.214	69.212	1.00 88.88	A
ATOM	1450	O	LEU	A	191	4.358	76.388	68.967	1.00 88.88	A
ATOM	1451	N	ASP	A	192	5.134	74.360	68.310	1.00 97.03	A
ATOM	1452	CA	ASP	A	192	5.383	74.718	66.927	1.00 97.03	A
ATOM	1453	CB	ASP	A	192	6.744	74.172	66.494	1.00100.07	A
ATOM	1454	CG	ASP	A	192	7.785	74.256	67.596	1.00100.07	A
ATOM	1455	OD1	ASP	A	192	8.067	75.379	68.066	1.00100.07	A
ATOM	1456	OD2	ASP	A	192	8.321	73.198	67.994	1.00100.07	A
ATOM	1457	C	ASP	A	192	4.294	74.099	66.052	1.00 97.03	A
ATOM	1458	O	ASP	A	192	3.673	73.110	66.439	1.00 97.03	A
ATOM	1459	N	LYS	A	193	4.066	74.685	64.880	1.00 30.13	A
ATOM	1460	CA	LYS	A	193	3.073	74.182	63.936	1.00 30.13	A
ATOM	1461	CB	LYS	A	193	1.833	75.071	63.963	1.00 88.42	A
ATOM	1462	CG	LYS	A	193	0.919	74.908	62.762	1.00 88.42	A
ATOM	1463	CD	LYS	A	193	0.025	76.119	62.617	1.00 88.42	A
ATOM	1464	CE	LYS	A	193	-0.670	76.138	61.280	1.00 88.42	A
ATOM	1465	NZ	LYS	A	193	-1.297	77.462	61.048	1.00 88.42	A
ATOM	1466	C	LYS	A	193	3.670	74.183	62.527	1.00 30.13	A
ATOM	1467	O	LYS	A	193	3.632	75.212	61.836	1.00 30.13	A
ATOM	1468	N	LEU	A	194	4.205	73.030	62.105	1.00 31.31	A
ATOM	1469	CA	LEU	A	194	4.850	72.873	60.790	1.00 31.31	A
ATOM	1470	CB	LEU	A	194	5.268	71.422	60.604	1.00 34.90	A
ATOM	1471	CG	LEU	A	194	6.671	71.285	60.020	1.00 34.90	A
ATOM	1472	CD1	LEU	A	194	7.490	70.294	60.834	1.00 34.90	A
ATOM	1473	CD2	LEU	A	194	6.566	70.857	58.590	1.00 34.90	A
ATOM	1474	C	LEU	A	194	3.964	73.315	59.630	1.00 31.31	A

ATOM	1475	O	LEU A	194	2.958	73.993	59.844	1.00	31.31	A
ATOM	1476	N	THR A	195	4.321	72.941	58.404	1.00	32.61	A
ATOM	1477	CA	THR A	195	3.510	73.364	57.265	1.00	32.61	A
ATOM	1478	CB	THR A	195	3.084	74.840	57.441	1.00	82.69	A
ATOM	1479	OG1	THR A	195	2.132	75.199	56.436	1.00	82.69	A
ATOM	1480	CG2	THR A	195	4.301	75.756	57.332	1.00	82.69	A
ATOM	1481	C	THR A	195	4.193	73.264	55.900	1.00	32.61	A
ATOM	1482	O	THR A	195	3.767	73.942	54.966	1.00	32.61	A
ATOM	1483	N	LEU A	196	5.217	72.424	55.751	1.00	44.55	A
ATOM	1484	CA	LEU A	196	5.933	72.366	54.470	1.00	44.55	A
ATOM	1485	CB	LEU A	196	7.018	71.281	54.486	1.00	31.90	A
ATOM	1486	CG	LEU A	196	6.714	69.816	54.729	1.00	31.90	A
ATOM	1487	CD1	LEU A	196	7.990	69.100	55.175	1.00	31.90	A
ATOM	1488	CD2	LEU A	196	5.669	69.706	55.793	1.00	31.90	A
ATOM	1489	C	LEU A	196	5.105	72.265	53.216	1.00	44.55	A
ATOM	1490	O	LEU A	196	4.207	71.433	53.108	1.00	44.55	A
ATOM	1491	N	ARG A	197	5.433	73.146	52.273	1.00	46.84	A
ATOM	1492	CA	ARG A	197	4.737	73.253	50.997	1.00	46.84	A
ATOM	1493	CB	ARG A	197	4.976	74.644	50.402	1.00	54.72	A
ATOM	1494	CG	ARG A	197	4.749	75.804	51.384	1.00	54.72	A
ATOM	1495	CD	ARG A	197	4.243	77.010	50.621	1.00	54.72	A
ATOM	1496	NE	ARG A	197	4.582	78.285	51.237	1.00	54.72	A
ATOM	1497	CZ	ARG A	197	4.340	79.459	50.659	1.00	54.72	A
ATOM	1498	NH1	ARG A	197	3.755	79.497	49.467	1.00	54.72	A
ATOM	1499	NH2	ARG A	197	4.703	80.592	51.249	1.00	54.72	A
ATOM	1500	C	ARG A	197	5.129	72.167	49.986	1.00	46.84	A
ATOM	1501	O	ARG A	197	4.317	71.298	49.667	1.00	46.84	A
ATOM	1502	N	ILE A	198	6.365	72.221	49.491	1.00	33.53	A
ATOM	1503	CA	ILE A	198	6.876	71.260	48.508	1.00	33.53	A
ATOM	1504	CB	ILE A	198	6.366	69.829	48.798	1.00	31.98	A
ATOM	1505	CG2	ILE A	198	6.661	68.896	47.640	1.00	31.98	A
ATOM	1506	CG1	ILE A	198	7.039	69.321	50.082	1.00	31.98	A
ATOM	1507	CD	ILE A	198	7.115	67.786	50.217	1.00	31.98	A
ATOM	1508	C	ILE A	198	6.472	71.698	47.114	1.00	33.53	A
ATOM	1509	O	ILE A	198	6.077	70.905	46.284	1.00	33.53	A
ATOM	1510	N	TRP A	199	6.622	72.991	46.875	1.00	100.07	A
ATOM	1511	CA	TRP A	199	6.251	73.655	45.632	1.00	100.07	A
ATOM	1512	CB	TRP A	199	7.323	74.658	45.251	1.00	99.57	A
ATOM	1513	CG	TRP A	199	6.687	75.861	44.709	1.00	99.57	A
ATOM	1514	CD2	TRP A	199	6.225	76.980	45.466	1.00	99.57	A
ATOM	1515	CE2	TRP A	199	5.583	77.852	44.565	1.00	99.57	A
ATOM	1516	CE3	TRP A	199	6.292	77.330	46.823	1.00	99.57	A
ATOM	1517	CD1	TRP A	199	6.323	76.086	43.421	1.00	99.57	A
ATOM	1518	NE1	TRP A	199	5.657	77.280	43.322	1.00	99.57	A
ATOM	1519	CZ2	TRP A	199	5.005	79.064	44.976	1.00	99.57	A
ATOM	1520	CZ3	TRP A	199	5.719	78.532	47.232	1.00	99.57	A
ATOM	1521	CH2	TRP A	199	5.084	79.386	46.309	1.00	99.57	A
ATOM	1522	C	TRP A	199	5.790	72.979	44.352	1.00	100.07	A
ATOM	1523	O	TRP A	199	4.617	72.644	44.209	1.00	100.07	A
ATOM	1524	N	THR A	200	6.692	72.835	43.391	1.00	68.48	A
ATOM	1525	CA	THR A	200	6.319	72.236	42.111	1.00	68.48	A
ATOM	1526	CB	THR A	200	6.737	73.178	40.936	1.00	87.15	A
ATOM	1527	OG1	THR A	200	6.139	74.467	41.122	1.00	87.15	A
ATOM	1528	CG2	THR A	200	6.291	72.627	39.594	1.00	87.15	A
ATOM	1529	C	THR A	200	6.976	70.870	41.935	1.00	68.48	A
ATOM	1530	O	THR A	200	7.706	70.386	42.806	1.00	68.48	A
ATOM	1531	N	ASP A	201	6.692	70.252	40.800	1.00	31.77	A
ATOM	1532	CA	ASP A	201	7.241	68.964	40.483	1.00	31.77	A
ATOM	1533	CB	ASP A	201	6.380	67.867	41.088	1.00	88.26	A
ATOM	1534	CG	ASP A	201	6.183	68.052	42.561	1.00	88.26	A
ATOM	1535	OD1	ASP A	201	5.102	68.533	42.952	1.00	88.26	A
ATOM	1536	OD2	ASP A	201	7.117	67.738	43.327	1.00	88.26	A
ATOM	1537	C	ASP A	201	7.385	68.754	38.980	1.00	31.77	A
ATOM	1538	O	ASP A	201	6.566	69.236	38.169	1.00	31.77	A
ATOM	1539	N	GLY A	202	8.463	68.059	38.618	1.00	58.84	A
ATOM	1540	CA	GLY A	202	8.681	67.736	37.230	1.00	58.84	A
ATOM	1541	C	GLY A	202	7.467	66.868	36.954	1.00	58.84	A
ATOM	1542	O	GLY A	202	6.430	67.366	36.485	1.00	58.84	A
ATOM	1543	N	SER A	203	7.580	65.581	37.302	1.00	66.27	A
ATOM	1544	CA	SER A	203	6.497	64.618	37.102	1.00	66.27	A
ATOM	1545	CB	SER A	203	7.030	63.309	36.511	1.00	89.23	A
ATOM	1546	OG	SER A	203	7.849	62.622	37.432	1.00	89.23	A
ATOM	1547	C	SER A	203	5.691	64.315	38.366	1.00	66.27	A
ATOM	1548	O	SER A	203	4.597	64.856	38.530	1.00	66.27	A
ATOM	1549	N	VAL A	204	6.243	63.465	39.243	1.00	42.74	A
ATOM	1550	CA	VAL A	204	5.610	63.032	40.508	1.00	42.74	A
ATOM	1551	CB	VAL A	204	6.607	62.209	41.417	1.00	21.15	A
ATOM	1552	CG1	VAL A	204	7.944	62.046	40.738	1.00	21.15	A
ATOM	1553	CG2	VAL A	204	6.793	62.879	42.764	1.00	21.15	A
ATOM	1554	C	VAL A	204	4.972	64.117	41.390	1.00	42.74	A
ATOM	1555	O	VAL A	204	5.099	65.314	41.127	1.00	42.74	A
ATOM	1556	N	THR A	205	4.293	63.684	42.452	1.00	21.70	A
ATOM	1557	CA	THR A	205	3.617	64.619	43.348	1.00	21.70	A
ATOM	1558	CB	THR A	205	2.108	64.347	43.399	1.00	74.21	A

ATOM	1559	OG1	THR	A	205	1.876	63.080	44.030	1.00	74.21	A
ATOM	1560	CG2	THR	A	205	1.521	64.351	41.985	1.00	74.21	A
ATOM	1561	C	THR	A	205	4.120	64.675	44.794	1.00	21.70	A
ATOM	1562	O	THR	A	205	4.462	63.656	45.402	1.00	21.70	A
ATOM	1563	N	PRO	A	206	4.121	65.890	45.368	1.00	17.57	A
ATOM	1564	CD	PRO	A	206	3.336	67.024	44.848	1.00	23.29	A
ATOM	1565	CA	PRO	A	206	4.563	66.175	46.725	1.00	17.57	A
ATOM	1566	CB	PRO	A	206	3.730	67.384	47.102	1.00	23.29	A
ATOM	1567	CG	PRO	A	206	3.667	68.108	45.834	1.00	23.29	A
ATOM	1568	C	PRO	A	206	4.290	65.002	47.621	1.00	17.57	A
ATOM	1569	O	PRO	A	206	5.221	64.344	48.070	1.00	17.57	A
ATOM	1570	N	LEU	A	207	3.012	64.740	47.883	1.00	66.62	A
ATOM	1571	CA	LEU	A	207	2.637	63.621	48.739	1.00	66.62	A
ATOM	1572	CB	LEU	A	207	1.264	63.075	48.348	1.00	100.07	A
ATOM	1573	CG	LEU	A	207	0.807	61.885	49.197	1.00	100.07	A
ATOM	1574	CD1	LEU	A	207	0.394	62.392	50.572	1.00	100.07	A
ATOM	1575	CD2	LEU	A	207	-0.347	61.153	48.516	1.00	100.07	A
ATOM	1576	C	LEU	A	207	3.677	62.516	48.567	1.00	66.62	A
ATOM	1577	O	LEU	A	207	4.303	62.063	49.533	1.00	66.62	A
ATOM	1578	N	GLU	A	208	3.861	62.104	47.316	1.00	83.94	A
ATOM	1579	CA	GLU	A	208	4.828	61.073	46.987	1.00	83.94	A
ATOM	1580	CB	GLU	A	208	4.791	60.763	45.484	1.00	86.72	A
ATOM	1581	CG	GLU	A	208	3.448	60.239	44.974	1.00	86.72	A
ATOM	1582	CD	GLU	A	208	3.461	59.883	43.485	1.00	86.72	A
ATOM	1583	OE1	GLU	A	208	4.193	58.946	43.086	1.00	86.72	A
ATOM	1584	OE2	GLU	A	208	2.729	60.544	42.715	1.00	86.72	A
ATOM	1585	C	GLU	A	208	6.223	61.548	47.386	1.00	83.94	A
ATOM	1586	O	GLU	A	208	6.928	60.855	48.120	1.00	83.94	A
ATOM	1587	N	ALA	A	209	6.613	62.732	46.906	1.00	96.12	A
ATOM	1588	CA	ALA	A	209	7.929	63.298	47.221	1.00	96.12	A
ATOM	1589	CB	ALA	A	209	8.053	64.748	46.668	1.00	27.97	A
ATOM	1590	C	ALA	A	209	8.153	63.282	48.735	1.00	96.12	A
ATOM	1591	O	ALA	A	209	9.192	62.824	49.213	1.00	96.12	A
ATOM	1592	N	LEU	A	210	7.165	63.771	49.480	1.00	44.94	A
ATOM	1593	CA	LEU	A	210	7.227	63.812	50.934	1.00	44.94	A
ATOM	1594	CB	LEU	A	210	5.929	64.413	51.482	1.00	31.43	A
ATOM	1595	CG	LEU	A	210	5.568	64.066	52.931	1.00	31.43	A
ATOM	1596	CD1	LEU	A	210	6.619	64.625	53.863	1.00	31.43	A
ATOM	1597	CD2	LEU	A	210	4.174	64.600	53.278	1.00	31.43	A
ATOM	1598	C	LEU	A	210	7.464	62.430	51.554	1.00	44.94	A
ATOM	1599	O	LEU	A	210	8.495	62.197	52.201	1.00	44.94	A
ATOM	1600	N	ASN	A	211	6.508	61.519	51.374	1.00	100.07	A
ATOM	1601	CA	ASN	A	211	6.648	60.172	51.927	1.00	100.07	A
ATOM	1602	CB	ASN	A	211	5.497	59.264	51.479	1.00	100.07	A
ATOM	1603	CG	ASN	A	211	4.154	59.701	52.033	1.00	100.07	A
ATOM	1604	OD1	ASN	A	211	3.527	60.633	51.527	1.00	100.07	A
ATOM	1605	ND2	ASN	A	211	3.711	59.030	53.089	1.00	100.07	A
ATOM	1606	C	ASN	A	211	7.959	59.609	51.412	1.00	100.07	A
ATOM	1607	O	ASN	A	211	8.701	58.944	52.137	1.00	100.07	A
ATOM	1608	N	GLN	A	212	8.233	59.883	50.144	1.00	85.92	A
ATOM	1609	CA	GLN	A	212	9.457	59.426	49.522	1.00	85.92	A
ATOM	1610	CB	GLN	A	212	9.571	60.013	48.120	1.00	100.07	A
ATOM	1611	CG	GLN	A	212	10.776	59.549	47.342	1.00	100.07	A
ATOM	1612	CD	GLN	A	212	10.393	58.736	46.124	1.00	100.07	A
ATOM	1613	OE1	GLN	A	212	9.550	59.151	45.323	1.00	100.07	A
ATOM	1614	NE2	GLN	A	212	11.016	57.571	45.971	1.00	100.07	A
ATOM	1615	C	GLN	A	212	10.605	59.930	50.382	1.00	85.92	A
ATOM	1616	O	GLN	A	212	11.534	59.186	50.703	1.00	85.92	A
ATOM	1617	N	ALA	A	213	10.516	61.200	50.768	1.00	41.35	A
ATOM	1618	CA	ALA	A	213	11.546	61.840	51.581	1.00	41.35	A
ATOM	1619	CB	ALA	A	213	11.154	63.271	51.881	1.00	45.50	A
ATOM	1620	C	ALA	A	213	11.828	61.112	52.883	1.00	41.35	A
ATOM	1621	O	ALA	A	213	12.922	60.579	53.088	1.00	41.35	A
ATOM	1622	N	VAL	A	214	10.829	61.112	53.761	1.00	83.40	A
ATOM	1623	CA	VAL	A	214	10.925	60.472	55.069	1.00	83.40	A
ATOM	1624	CB	VAL	A	214	9.521	60.254	55.678	1.00	48.39	A
ATOM	1625	CG1	VAL	A	214	9.196	61.363	56.670	1.00	48.39	A
ATOM	1626	CG2	VAL	A	214	8.486	60.244	54.582	1.00	48.39	A
ATOM	1627	C	VAL	A	214	11.650	59.136	55.029	1.00	83.40	A
ATOM	1628	O	VAL	A	214	12.493	58.839	55.881	1.00	83.40	A
ATOM	1629	N	ALA	A	215	11.311	58.339	54.026	1.00	68.64	A
ATOM	1630	CA	ALA	A	215	11.905	57.024	53.843	1.00	68.64	A
ATOM	1631	CB	ALA	A	215	11.617	56.527	52.434	1.00	100.07	A
ATOM	1632	C	ALA	A	215	13.401	57.036	54.093	1.00	68.64	A
ATOM	1633	O	ALA	A	215	13.874	56.577	55.129	1.00	68.64	A
ATOM	1634	N	ILE	A	216	14.136	57.576	53.129	1.00	99.55	A
ATOM	1635	CA	ILE	A	216	15.585	57.651	53.204	1.00	99.55	A
ATOM	1636	CB	ILE	A	216	16.104	58.623	52.160	1.00	59.90	A
ATOM	1637	CG2	ILE	A	216	17.570	58.348	51.892	1.00	59.90	A
ATOM	1638	CG1	ILE	A	216	15.296	58.447	50.872	1.00	59.90	A
ATOM	1639	CD	ILE	A	216	15.592	59.487	49.835	1.00	59.90	A
ATOM	1640	C	ILE	A	216	16.060	58.067	54.590	1.00	99.55	A
ATOM	1641	O	ILE	A	216	16.869	57.375	55.208	1.00	99.55	A
ATOM	1642	N	LEU	A	217	15.547	59.193	55.074	1.00	64.91	A

ATOM	1643	CA	LEU	A	217	15.903	59.698	56.394	1.00	64.91	A
ATOM	1644	CB	LEU	A	217	14.980	60.861	56.762	1.00	37.93	A
ATOM	1645	CG	LEU	A	217	14.969	61.401	58.195	1.00	37.93	A
ATOM	1646	CD1	LEU	A	217	16.343	61.850	58.656	1.00	37.93	A
ATOM	1647	CD2	LEU	A	217	14.007	62.561	58.228	1.00	37.93	A
ATOM	1648	C	LEU	A	217	15.729	58.560	57.387	1.00	64.91	A
ATOM	1649	O	LEU	A	217	16.632	58.242	58.164	1.00	64.91	A
ATOM	1650	N	LYS	A	218	14.558	57.939	57.345	1.00	40.33	A
ATOM	1651	CA	LYS	A	218	14.264	56.828	58.236	1.00	40.33	A
ATOM	1652	CB	LYS	A	218	12.867	56.267	57.932	1.00	100.07	A
ATOM	1653	CG	LYS	A	218	12.883	55.002	57.080	1.00	100.07	A
ATOM	1654	CD	LYS	A	218	11.633	54.839	56.237	1.00	100.07	A
ATOM	1655	CE	LYS	A	218	11.820	53.728	55.201	1.00	100.07	A
ATOM	1656	NZ	LYS	A	218	10.636	53.558	54.307	1.00	100.07	A
ATOM	1657	C	LYS	A	218	15.313	55.737	58.027	1.00	40.33	A
ATOM	1658	O	LYS	A	218	15.919	55.237	58.980	1.00	40.33	A
ATOM	1659	N	GLU	A	219	15.509	55.399	56.752	1.00	47.87	A
ATOM	1660	CA	GLU	A	219	16.434	54.370	56.286	1.00	47.87	A
ATOM	1661	CB	GLU	A	219	16.394	54.331	54.759	1.00	87.82	A
ATOM	1662	CG	GLU	A	219	17.156	53.201	54.110	1.00	87.82	A
ATOM	1663	CD	GLU	A	219	16.986	53.206	52.595	1.00	87.82	A
ATOM	1664	OE1	GLU	A	219	15.837	53.058	52.115	1.00	87.82	A
ATOM	1665	OE2	GLU	A	219	18.000	53.364	51.882	1.00	87.82	A
ATOM	1666	C	GLU	A	219	17.852	54.641	56.762	1.00	47.87	A
ATOM	1667	O	GLU	A	219	18.588	53.716	57.096	1.00	47.87	A
ATOM	1668	N	HIS	A	220	18.239	55.912	56.779	1.00	65.57	A
ATOM	1669	CA	HIS	A	220	19.570	56.281	57.237	1.00	65.57	A
ATOM	1670	CB	HIS	A	220	19.877	57.739	56.929	1.00	34.75	A
ATOM	1671	CG	HIS	A	220	20.172	58.005	55.489	1.00	34.75	A
ATOM	1672	CD2	HIS	A	220	19.422	58.576	54.516	1.00	34.75	A
ATOM	1673	ND1	HIS	A	220	21.384	57.700	54.912	1.00	34.75	A
ATOM	1674	CE1	HIS	A	220	21.369	58.076	53.645	1.00	34.75	A
ATOM	1675	NE2	HIS	A	220	20.191	58.611	53.380	1.00	34.75	A
ATOM	1676	C	HIS	A	220	19.613	56.090	58.735	1.00	65.57	A
ATOM	1677	O	HIS	A	220	20.464	55.380	59.255	1.00	65.57	A
ATOM	1678	N	LEU	A	221	18.688	56.748	59.422	1.00	50.48	A
ATOM	1679	CA	LEU	A	221	18.591	56.645	60.869	1.00	50.48	A
ATOM	1680	CB	LEU	A	221	17.158	56.994	61.308	1.00	48.41	A
ATOM	1681	CG	LEU	A	221	16.772	58.342	61.941	1.00	48.41	A
ATOM	1682	CD1	LEU	A	221	17.653	58.559	63.162	1.00	48.41	A
ATOM	1683	CD2	LEU	A	221	16.900	59.501	60.954	1.00	48.41	A
ATOM	1684	C	LEU	A	221	18.941	55.227	61.336	1.00	50.48	A
ATOM	1685	O	LEU	A	221	19.723	55.030	62.272	1.00	50.48	A
ATOM	1686	N	ASN	A	222	18.359	54.238	60.666	1.00	79.78	A
ATOM	1687	CA	ASN	A	222	18.589	52.845	61.014	1.00	79.78	A
ATOM	1688	CB	ASN	A	222	17.833	51.948	60.042	1.00	64.26	A
ATOM	1689	CG	ASN	A	222	16.330	52.115	60.167	1.00	64.26	A
ATOM	1690	OD1	ASN	A	222	15.777	52.007	61.261	1.00	64.26	A
ATOM	1691	ND2	ASN	A	222	15.662	52.381	59.050	1.00	64.26	A
ATOM	1692	C	ASN	A	222	20.057	52.466	61.093	1.00	79.78	A
ATOM	1693	O	ASN	A	222	20.462	51.742	61.995	1.00	79.78	A
ATOM	1694	N	TYR	A	223	20.859	52.971	60.166	1.00	81.32	A
ATOM	1695	CA	TYR	A	223	22.280	52.670	60.169	1.00	81.32	A
ATOM	1696	CB	TYR	A	223	23.029	53.617	59.234	1.00	81.85	A
ATOM	1697	CG	TYR	A	223	22.680	53.484	57.769	1.00	81.85	A
ATOM	1698	CD1	TYR	A	223	22.719	52.249	57.137	1.00	81.85	A
ATOM	1699	CE1	TYR	A	223	22.450	52.132	55.795	1.00	81.85	A
ATOM	1700	CD2	TYR	A	223	22.357	54.606	57.009	1.00	81.85	A
ATOM	1701	CE2	TYR	A	223	22.087	54.502	55.669	1.00	81.85	A
ATOM	1702	CZ	TYR	A	223	22.135	53.261	55.064	1.00	81.85	A
ATOM	1703	OH	TYR	A	223	21.868	53.139	53.719	1.00	81.85	A
ATOM	1704	C	TYR	A	223	22.867	52.786	61.574	1.00	81.32	A
ATOM	1705	O	TYR	A	223	23.876	52.152	61.874	1.00	81.32	A
ATOM	1706	N	PHE	A	224	22.243	53.589	62.436	1.00	65.20	A
ATOM	1707	CA	PHE	A	224	22.755	53.765	63.799	1.00	65.20	A
ATOM	1708	CB	PHE	A	224	22.110	54.988	64.473	1.00	70.91	A
ATOM	1709	CG	PHE	A	224	22.403	56.303	63.781	1.00	70.91	A
ATOM	1710	CD1	PHE	A	224	21.497	56.852	62.880	1.00	70.91	A
ATOM	1711	CD2	PHE	A	224	23.596	56.977	64.015	1.00	70.91	A
ATOM	1712	CE1	PHE	A	224	21.772	58.043	62.224	1.00	70.91	A
ATOM	1713	CE2	PHE	A	224	23.878	58.168	63.362	1.00	70.91	A
ATOM	1714	CZ	PHE	A	224	22.962	58.701	62.463	1.00	70.91	A
ATOM	1715	C	PHE	A	224	22.515	52.510	64.644	1.00	65.20	A
ATOM	1716	O	PHE	A	224	22.260	52.576	65.850	1.00	65.20	A
ATOM	1717	N	ALA	A	225	22.621	51.362	63.987	1.00	42.35	A
ATOM	1718	CA	ALA	A	225	22.412	50.070	64.618	1.00	42.35	A
ATOM	1719	CB	ALA	A	225	22.202	49.004	63.547	1.00	100.07	A
ATOM	1720	C	ALA	A	225	23.563	49.668	65.522	1.00	42.35	A
ATOM	1721	O	ALA	A	225	24.054	50.485	66.297	1.00	42.35	A
ATOM	1722	N	ASN	A	226	23.981	48.404	65.421	1.00	61.29	A
ATOM	1723	CA	ASN	A	226	25.074	47.880	66.240	1.00	61.29	A
ATOM	1724	CB	ASN	A	226	25.162	46.352	66.127	1.00	100.07	A
ATOM	1725	CG	ASN	A	226	24.423	45.635	67.257	1.00	100.07	A
ATOM	1726	OD1	ASN	A	226	24.404	44.402	67.322	1.00	100.07	A

ATOM	1727	ND2	ASN	A	226	23.816	46.408	68.154	1.00100.07	A
ATOM	1728	C	ASN	A	226	26.408	48.508	65.870	1.00 61.29	A
ATOM	1729	O	ASN	A	226	26.799	48.521	64.706	1.00 61.29	A
ATOM	1730	N	PRO	A	227	27.117	49.048	66.868	1.00 40.31	A
ATOM	1731	CD	PRO	A	227	26.527	49.417	68.167	1.00 59.71	A
ATOM	1732	CA	PRO	A	227	28.412	49.703	66.712	1.00 40.31	A
ATOM	1733	CB	PRO	A	227	28.206	50.984	67.487	1.00 59.71	A
ATOM	1734	CG	PRO	A	227	27.521	50.456	68.713	1.00 59.71	A
ATOM	1735	C	PRO	A	227	29.549	48.893	67.313	1.00 40.31	A
ATOM	1736	O	PRO	A	227	29.310	47.992	68.110	1.00 40.31	A
ATOM	1737	N	GLU	A	228	30.784	49.246	66.962	1.00 59.63	A
ATOM	1738	CA	GLU	A	228	31.964	48.552	67.476	1.00 59.63	A
ATOM	1739	CB	GLU	A	228	32.915	48.224	66.326	1.00100.07	A
ATOM	1740	CG	GLU	A	228	33.255	49.422	65.465	1.00100.07	A
ATOM	1741	CD	GLU	A	228	34.162	49.065	64.309	1.00100.07	A
ATOM	1742	OE1	GLU	A	228	33.737	48.260	63.448	1.00100.07	A
ATOM	1743	OE2	GLU	A	228	35.299	49.592	64.265	1.00100.07	A
ATOM	1744	C	GLU	A	228	32.684	49.388	68.534	1.00 59.63	A
ATOM	1745	O	GLU	A	228	32.123	49.679	69.587	1.00 59.63	A
ATOM	1746	N	ALA	A	229	33.934	49.743	68.247	1.00100.07	A
ATOM	1747	CA	ALA	A	229	34.773	50.566	69.119	1.00100.07	A
ATOM	1748	CB	ALA	A	229	34.435	52.038	68.894	1.00 56.47	A
ATOM	1749	C	ALA	A	229	34.789	50.255	70.622	1.00100.07	A
ATOM	1750	O	ALA	A	229	34.070	49.374	71.102	1.00100.07	A
ATOM	1751	N	SER	A	230	35.639	50.989	71.346	1.00100.07	A
ATOM	1752	CA	SER	A	230	35.799	50.856	72.800	1.00100.07	A
ATOM	1753	CB	SER	A	230	37.154	50.233	73.130	1.00 57.13	A
ATOM	1754	OG	SER	A	230	37.372	50.230	74.531	1.00 57.13	A
ATOM	1755	C	SER	A	230	35.685	52.219	73.501	1.00100.07	A
ATOM	1756	O	SER	A	230	34.764	52.982	73.219	1.00100.07	A
ATOM	1757	N	ALA	A	231	36.612	52.528	74.411	1.00100.07	A
ATOM	1758	CA	ALA	A	231	36.574	53.813	75.124	1.00100.07	A
ATOM	1759	CB	ALA	A	231	35.302	53.907	75.890	1.00 66.54	A
ATOM	1760	C	ALA	A	231	37.742	54.071	76.077	1.00100.07	A
ATOM	1761	O	ALA	A	231	38.231	53.088	76.677	1.00100.07	A
ATOM	1762	OT	ALA	A	231	38.121	55.259	76.240	1.00 66.54	A
ATOM	1763	CB	ALA	B	6	27.155	51.553	47.423	1.00 79.56	B
ATOM	1764	C	ALA	B	6	27.338	52.268	49.835	1.00100.07	B
ATOM	1765	O	ALA	B	6	28.190	51.919	50.660	1.00100.07	B
ATOM	1766	N	ALA	B	6	29.209	52.643	48.225	1.00100.07	B
ATOM	1767	CA	ALA	B	6	27.726	52.605	48.381	1.00100.07	B
ATOM	1768	N	ALA	B	7	26.035	52.373	50.100	1.00100.07	B
ATOM	1769	CA	ALA	B	7	25.360	52.131	51.384	1.00100.07	B
ATOM	1770	CB	ALA	B	7	23.995	51.490	51.113	1.00 82.99	B
ATOM	1771	C	ALA	B	7	26.025	51.387	52.545	1.00100.07	B
ATOM	1772	O	ALA	B	7	27.244	51.216	52.605	1.00100.07	B
ATOM	1773	N	ALA	B	8	25.168	50.977	53.481	1.00 78.31	B
ATOM	1774	CA	ALA	B	8	25.552	50.243	54.678	1.00 78.31	B
ATOM	1775	CB	ALA	B	8	25.669	48.777	54.336	1.00 59.34	B
ATOM	1776	C	ALA	B	8	26.836	50.736	55.352	1.00 78.31	B
ATOM	1777	O	ALA	B	8	27.845	50.037	55.357	1.00 78.31	B
ATOM	1778	N	PRO	B	9	26.808	51.938	55.956	1.00 67.12	B
ATOM	1779	CD	PRO	B	9	25.683	52.886	56.059	1.00 58.31	B
ATOM	1780	CA	PRO	B	9	27.999	52.480	56.619	1.00 67.12	B
ATOM	1781	CB	PRO	B	9	27.659	53.954	56.775	1.00 58.31	B
ATOM	1782	CG	PRO	B	9	26.204	53.908	57.060	1.00 58.31	B
ATOM	1783	C	PRO	B	9	28.303	51.814	57.958	1.00 67.12	B
ATOM	1784	O	PRO	B	9	27.549	50.963	58.428	1.00 67.12	B
ATOM	1785	N	VAL	B	10	29.413	52.213	58.568	1.00 72.37	B
ATOM	1786	CA	VAL	B	10	29.830	51.657	59.847	1.00 72.37	B
ATOM	1787	CB	VAL	B	10	31.334	51.424	59.891	1.00 48.12	B
ATOM	1788	CG1	VAL	B	10	31.740	50.974	61.282	1.00 48.12	B
ATOM	1789	CG2	VAL	B	10	31.730	50.403	58.846	1.00 48.12	B
ATOM	1790	C	VAL	B	10	29.508	52.578	60.995	1.00 72.37	B
ATOM	1791	O	VAL	B	10	29.775	53.771	60.912	1.00 72.37	B
ATOM	1792	N	PHE	B	11	28.978	52.017	62.079	1.00 72.74	B
ATOM	1793	CA	PHE	B	11	28.611	52.808	63.247	1.00 72.74	B
ATOM	1794	CB	PHE	B	11	27.223	52.372	63.731	1.00 78.84	B
ATOM	1795	CG	PHE	B	11	26.595	53.303	64.734	1.00 78.84	B
ATOM	1796	CD1	PHE	B	11	26.622	54.678	64.544	1.00 78.84	B
ATOM	1797	CD2	PHE	B	11	25.941	52.795	65.860	1.00 78.84	B
ATOM	1798	CE1	PHE	B	11	26.005	55.533	65.461	1.00 78.84	B
ATOM	1799	CE2	PHE	B	11	25.321	53.640	66.783	1.00 78.84	B
ATOM	1800	CZ	PHE	B	11	25.352	55.010	66.584	1.00 78.84	B
ATOM	1801	C	PHE	B	11	29.637	52.713	64.373	1.00 72.74	B
ATOM	1802	O	PHE	B	11	29.281	52.462	65.514	1.00 72.74	B
ATOM	1803	N	THR	B	12	30.914	52.911	64.040	1.00 59.90	B
ATOM	1804	CA	THR	B	12	31.999	52.875	65.029	1.00 59.90	B
ATOM	1805	CB	THR	B	12	33.338	53.340	64.411	1.00100.07	B
ATOM	1806	OG1	THR	B	12	33.135	54.564	63.690	1.00100.07	B
ATOM	1807	CG2	THR	B	12	33.889	52.283	63.463	1.00100.07	B
ATOM	1808	C	THR	B	12	31.633	53.800	66.185	1.00 59.90	B
ATOM	1809	O	THR	B	12	31.427	54.996	65.986	1.00 59.90	B
ATOM	1810	N	ALA	B	13	31.547	53.251	67.391	1.00 48.11	B

ATOM	1811	CA	ALA	B	13	31.168	54.063	68.538	1.00	48.11	B
ATOM	1812	CB	ALA	B	13	29.736	53.737	68.962	1.00	30.65	B
ATOM	1813	C	ALA	B	13	32.093	53.927	69.730	1.00	48.11	B
ATOM	1814	O	ALA	B	13	31.844	53.126	70.634	1.00	48.11	B
ATOM	1815	N	THR	B	14	33.160	54.719	69.734	1.00	65.33	B
ATOM	1816	CA	THR	B	14	34.104	54.698	70.838	1.00	65.33	B
ATOM	1817	CB	THR	B	14	35.351	55.548	70.521	1.00	100.07	B
ATOM	1818	OG1	THR	B	14	35.977	55.053	69.327	1.00	100.07	B
ATOM	1819	CG2	THR	B	14	36.345	55.480	71.673	1.00	100.07	B
ATOM	1820	C	THR	B	14	33.379	55.242	72.073	1.00	65.33	B
ATOM	1821	O	THR	B	14	33.225	56.451	72.243	1.00	65.33	B
ATOM	1822	N	THR	B	15	32.920	54.316	72.909	1.00	100.01	B
ATOM	1823	CA	THR	B	15	32.182	54.596	74.137	1.00	100.01	B
ATOM	1824	CB	THR	B	15	31.609	53.294	74.719	1.00	100.07	B
ATOM	1825	OG1	THR	B	15	32.638	52.611	75.448	1.00	100.07	B
ATOM	1826	CG2	THR	B	15	31.115	52.377	73.599	1.00	100.07	B
ATOM	1827	C	THR	B	15	33.032	55.226	75.232	1.00	100.01	B
ATOM	1828	O	THR	B	15	33.978	55.961	74.950	1.00	100.01	B
ATOM	1829	N	GLN	B	16	32.689	54.900	76.482	1.00	99.07	B
ATOM	1830	CA	GLN	B	16	33.371	55.391	77.688	1.00	99.07	B
ATOM	1831	CB	GLN	B	16	33.434	56.926	77.678	1.00	91.47	B
ATOM	1832	CG	GLN	B	16	34.322	57.534	78.750	1.00	91.47	B
ATOM	1833	CD	GLN	B	16	35.695	56.888	78.811	1.00	91.47	B
ATOM	1834	OE1	GLN	B	16	36.428	56.856	77.822	1.00	91.47	B
ATOM	1835	NE2	GLN	B	16	36.049	56.369	79.980	1.00	91.47	B
ATOM	1836	C	GLN	B	16	32.578	54.891	78.905	1.00	99.07	B
ATOM	1837	O	GLN	B	16	31.914	53.853	78.821	1.00	99.07	B
ATOM	1838	N	GLY	B	17	32.662	55.606	80.029	1.00	100.07	B
ATOM	1839	CA	GLY	B	17	31.908	55.232	81.220	1.00	100.07	B
ATOM	1840	C	GLY	B	17	30.481	55.693	80.971	1.00	100.07	B
ATOM	1841	O	GLY	B	17	29.639	54.897	80.556	1.00	100.07	B
ATOM	1842	N	ASP	B	18	30.194	56.968	81.230	1.00	77.15	B
ATOM	1843	CA	ASP	B	18	28.868	57.503	80.932	1.00	77.15	B
ATOM	1844	CB	ASP	B	18	27.875	57.280	82.090	1.00	100.07	B
ATOM	1845	CG	ASP	B	18	28.244	58.021	83.349	1.00	100.07	B
ATOM	1846	OD1	ASP	B	18	29.429	57.976	83.735	1.00	100.07	B
ATOM	1847	OD2	ASP	B	18	27.333	58.627	83.962	1.00	100.07	B
ATOM	1848	C	ASP	B	18	28.890	58.957	80.473	1.00	77.15	B
ATOM	1849	O	ASP	B	18	28.073	59.786	80.870	1.00	77.15	B
ATOM	1850	N	HIS	B	19	29.848	59.231	79.596	1.00	59.01	B
ATOM	1851	CA	HIS	B	19	30.036	60.536	79.001	1.00	59.01	B
ATOM	1852	CB	HIS	B	19	30.554	61.546	80.031	1.00	99.93	B
ATOM	1853	CG	HIS	B	19	31.642	61.027	80.915	1.00	99.93	B
ATOM	1854	CD2	HIS	B	19	32.186	59.794	81.041	1.00	99.93	B
ATOM	1855	ND1	HIS	B	19	32.300	61.829	81.823	1.00	99.93	B
ATOM	1856	CE1	HIS	B	19	33.202	61.113	82.469	1.00	99.93	B
ATOM	1857	NE2	HIS	B	19	33.153	59.874	82.014	1.00	99.93	B
ATOM	1858	C	HIS	B	19	30.952	60.441	77.799	1.00	59.01	B
ATOM	1859	O	HIS	B	19	31.723	59.490	77.653	1.00	59.01	B
ATOM	1860	N	TYR	B	20	30.841	61.432	76.927	1.00	64.52	B
ATOM	1861	CA	TYR	B	20	31.639	61.483	75.712	1.00	64.52	B
ATOM	1862	CB	TYR	B	20	33.132	61.667	76.040	1.00	86.15	B
ATOM	1863	CG	TYR	B	20	33.940	62.278	74.909	1.00	86.15	B
ATOM	1864	CD1	TYR	B	20	35.331	62.327	74.965	1.00	86.15	B
ATOM	1865	CE1	TYR	B	20	36.076	62.865	73.911	1.00	86.15	B
ATOM	1866	CD2	TYR	B	20	33.313	62.790	73.773	1.00	86.15	B
ATOM	1867	CE2	TYR	B	20	34.046	63.325	72.724	1.00	86.15	B
ATOM	1868	CZ	TYR	B	20	35.420	63.359	72.794	1.00	86.15	B
ATOM	1869	OH	TYR	B	20	36.128	63.872	71.735	1.00	86.15	B
ATOM	1870	C	TYR	B	20	31.415	60.178	74.973	1.00	64.52	B
ATOM	1871	O	TYR	B	20	32.296	59.325	74.909	1.00	64.52	B
ATOM	1872	N	GLY	B	21	30.212	60.024	74.437	1.00	99.59	B
ATOM	1873	CA	GLY	B	21	29.896	58.823	73.700	1.00	99.59	B
ATOM	1874	C	GLY	B	21	30.171	59.065	72.238	1.00	99.59	B
ATOM	1875	O	GLY	B	21	29.258	59.179	71.429	1.00	99.59	B
ATOM	1876	N	GLU	B	22	31.444	59.186	71.901	1.00	60.24	B
ATOM	1877	CA	GLU	B	22	31.824	59.388	70.519	1.00	60.24	B
ATOM	1878	CB	GLU	B	22	33.345	59.257	70.402	1.00	99.88	B
ATOM	1879	CG	GLU	B	22	33.884	59.121	68.987	1.00	99.88	B
ATOM	1880	CD	GLU	B	22	33.951	57.676	68.499	1.00	99.88	B
ATOM	1881	OE1	GLU	B	22	32.894	57.011	68.410	1.00	99.88	B
ATOM	1882	OE2	GLU	B	22	35.074	57.206	68.195	1.00	99.88	B
ATOM	1883	C	GLU	B	22	31.118	58.294	69.716	1.00	60.24	B
ATOM	1884	O	GLU	B	22	31.180	57.111	70.060	1.00	60.24	B
ATOM	1885	N	PHE	B	23	30.427	58.703	68.661	1.00	68.91	B
ATOM	1886	CA	PHE	B	23	29.709	57.786	67.792	1.00	68.91	B
ATOM	1887	CB	PHE	B	23	28.222	57.955	68.023	1.00	73.38	B
ATOM	1888	CG	PHE	B	23	27.833	57.680	69.426	1.00	73.38	B
ATOM	1889	CD1	PHE	B	23	26.914	58.480	70.082	1.00	73.38	B
ATOM	1890	CD2	PHE	B	23	28.437	56.634	70.118	1.00	73.38	B
ATOM	1891	CE1	PHE	B	23	26.601	58.245	71.421	1.00	73.38	B
ATOM	1892	CE2	PHE	B	23	28.139	56.387	71.446	1.00	73.38	B
ATOM	1893	CZ	PHE	B	23	27.217	57.194	72.105	1.00	73.38	B
ATOM	1894	C	PHE	B	23	30.110	58.192	66.394	1.00	68.91	B

ATOM	1895	O	PHE	B	23	30.427	59.359	66.170	1.00	68.91	B
ATOM	1896	N	VAL	B	24	30.125	57.249	65.455	1.00	81.71	B
ATOM	1897	CA	VAL	B	24	30.531	57.594	64.095	1.00	81.71	B
ATOM	1898	CB	VAL	B	24	32.070	57.615	63.953	1.00	8.17	B
ATOM	1899	CG1	VAL	B	24	32.448	57.871	62.510	1.00	8.17	B
ATOM	1900	CG2	VAL	B	24	32.667	58.680	64.852	1.00	8.17	B
ATOM	1901	C	VAL	B	24	30.036	56.748	62.936	1.00	81.71	B
ATOM	1902	O	VAL	B	24	30.568	55.667	62.698	1.00	81.71	B
ATOM	1903	N	LEU	B	25	29.035	57.236	62.208	1.00	73.45	B
ATOM	1904	CA	LEU	B	25	28.584	56.505	61.036	1.00	73.45	B
ATOM	1905	CB	LEU	B	25	27.119	56.808	60.684	1.00	20.54	B
ATOM	1906	CG	LEU	B	25	26.676	58.027	59.875	1.00	20.54	B
ATOM	1907	CD1	LEU	B	25	27.419	58.135	58.550	1.00	20.54	B
ATOM	1908	CD2	LEU	B	25	25.182	57.890	59.639	1.00	20.54	B
ATOM	1909	C	LEU	B	25	29.557	57.067	60.007	1.00	73.45	B
ATOM	1910	O	LEU	B	25	29.912	58.241	60.086	1.00	73.45	B
ATOM	1911	N	GLU	B	26	29.986	56.257	59.044	1.00	100.07	B
ATOM	1912	CA	GLU	B	26	30.984	56.734	58.100	1.00	100.07	B
ATOM	1913	CB	GLU	B	26	32.048	55.648	57.958	1.00	99.35	B
ATOM	1914	CG	GLU	B	26	33.440	56.186	57.747	1.00	99.35	B
ATOM	1915	CD	GLU	B	26	34.499	55.165	58.101	1.00	99.35	B
ATOM	1916	OE1	GLU	B	26	34.482	54.054	57.519	1.00	99.35	B
ATOM	1917	OE2	GLU	B	26	35.348	55.473	58.967	1.00	99.35	B
ATOM	1918	C	GLU	B	26	30.568	57.311	56.738	1.00	100.07	B
ATOM	1919	O	GLU	B	26	30.080	58.440	56.690	1.00	100.07	B
ATOM	1920	N	PRO	B	27	30.744	56.575	55.619	1.00	70.02	B
ATOM	1921	CD	PRO	B	27	31.438	55.321	55.290	1.00	23.02	B
ATOM	1922	CA	PRO	B	27	30.323	57.235	54.379	1.00	70.02	B
ATOM	1923	CB	PRO	B	27	30.851	56.310	53.288	1.00	23.02	B
ATOM	1924	CG	PRO	B	27	32.009	55.647	53.931	1.00	23.02	B
ATOM	1925	C	PRO	B	27	28.837	57.482	54.213	1.00	70.02	B
ATOM	1926	O	PRO	B	27	28.011	56.617	54.484	1.00	70.02	B
ATOM	1927	N	LEU	B	28	28.520	58.683	53.755	1.00	44.22	B
ATOM	1928	CA	LEU	B	28	27.157	59.101	53.491	1.00	44.22	B
ATOM	1929	CB	LEU	B	28	26.538	59.786	54.702	1.00	59.23	B
ATOM	1930	CG	LEU	B	28	26.298	58.974	55.970	1.00	59.23	B
ATOM	1931	CD1	LEU	B	28	25.541	59.835	56.960	1.00	59.23	B
ATOM	1932	CD2	LEU	B	28	25.506	57.721	55.656	1.00	59.23	B
ATOM	1933	C	LEU	B	28	27.267	60.096	52.354	1.00	44.22	B
ATOM	1934	O	LEU	B	28	28.034	61.055	52.445	1.00	44.22	B
ATOM	1935	N	GLU	B	29	26.525	59.867	51.277	1.00	55.67	B
ATOM	1936	CA	GLU	B	29	26.566	60.777	50.138	1.00	55.67	B
ATOM	1937	CB	GLU	B	29	25.359	60.531	49.226	1.00	99.81	B
ATOM	1938	CG	GLU	B	29	25.318	61.360	47.942	1.00	99.81	B
ATOM	1939	CD	GLU	B	29	26.308	60.890	46.890	1.00	99.81	B
ATOM	1940	OE1	GLU	B	29	27.528	61.069	47.097	1.00	99.81	B
ATOM	1941	OE2	GLU	B	29	25.860	60.339	45.857	1.00	99.81	B
ATOM	1942	C	GLU	B	29	26.534	62.204	50.690	1.00	55.67	B
ATOM	1943	O	GLU	B	29	25.783	62.504	51.626	1.00	55.67	B
ATOM	1944	N	ARG	B	30	27.358	63.077	50.120	1.00	83.37	B
ATOM	1945	CA	ARG	B	30	27.434	64.451	50.593	1.00	83.37	B
ATOM	1946	CB	ARG	B	30	28.133	65.358	49.576	1.00	100.07	B
ATOM	1947	CG	ARG	B	30	27.367	65.502	48.289	1.00	100.07	B
ATOM	1948	CD	ARG	B	30	27.615	66.840	47.621	1.00	100.07	B
ATOM	1949	NE	ARG	B	30	26.938	66.895	46.326	1.00	100.07	B
ATOM	1950	CZ	ARG	B	30	26.924	67.957	45.531	1.00	100.07	B
ATOM	1951	NH1	ARG	B	30	27.547	69.067	45.901	1.00	100.07	B
ATOM	1952	NH2	ARG	B	30	26.304	67.901	44.360	1.00	100.07	B
ATOM	1953	C	ARG	B	30	26.059	65.018	50.892	1.00	83.37	B
ATOM	1954	O	ARG	B	30	25.145	64.948	50.067	1.00	83.37	B
ATOM	1955	N	GLY	B	31	25.910	65.559	52.094	1.00	49.44	B
ATOM	1956	CA	GLY	B	31	24.651	66.165	52.449	1.00	49.44	B
ATOM	1957	C	GLY	B	31	23.870	65.507	53.561	1.00	49.44	B
ATOM	1958	O	GLY	B	31	22.820	66.018	53.934	1.00	49.44	B
ATOM	1959	N	PHE	B	32	24.340	64.390	54.106	1.00	58.66	B
ATOM	1960	CA	PHE	B	32	23.569	63.761	55.172	1.00	58.66	B
ATOM	1961	CB	PHE	B	32	23.214	62.318	54.798	1.00	45.85	B
ATOM	1962	CG	PHE	B	32	22.292	62.218	53.610	1.00	45.85	B
ATOM	1963	CD1	PHE	B	32	21.055	62.856	53.619	1.00	45.85	B
ATOM	1964	CD2	PHE	B	32	22.681	61.542	52.457	1.00	45.85	B
ATOM	1965	CE1	PHE	B	32	20.220	62.831	52.489	1.00	45.85	B
ATOM	1966	CE2	PHE	B	32	21.849	61.512	51.322	1.00	45.85	B
ATOM	1967	CZ	PHE	B	32	20.618	62.160	51.342	1.00	45.85	B
ATOM	1968	C	PHE	B	32	24.227	63.814	56.532	1.00	58.66	B
ATOM	1969	O	PHE	B	32	23.565	63.645	57.549	1.00	58.66	B
ATOM	1970	N	GLY	B	33	25.529	64.054	56.556	1.00	34.05	B
ATOM	1971	CA	GLY	B	33	26.207	64.160	57.831	1.00	34.05	B
ATOM	1972	C	GLY	B	33	25.363	65.108	58.647	1.00	34.05	B
ATOM	1973	O	GLY	B	33	24.979	64.805	59.766	1.00	34.05	B
ATOM	1974	N	VAL	B	34	25.042	66.244	58.040	1.00	70.95	B
ATOM	1975	CA	VAL	B	34	24.234	67.296	58.651	1.00	70.95	B
ATOM	1976	CB	VAL	B	34	24.452	68.648	57.902	1.00	46.05	B
ATOM	1977	CG1	VAL	B	34	23.311	69.620	58.172	1.00	46.05	B
ATOM	1978	CG2	VAL	B	34	25.764	69.259	58.336	1.00	46.05	B

ATOM	2063	N	SER	B	46	17.246	68.415	73.737	1.00100.07	B
ATOM	2064	CA	SER	B	46	15.826	68.592	74.033	1.00100.07	B
ATOM	2065	CB	SER	B	46	15.059	68.930	72.750	1.00 84.56	B
ATOM	2066	OG	SER	B	46	15.629	70.035	72.075	1.00 84.56	B
ATOM	2067	C	SER	B	46	15.195	67.350	74.642	1.00100.07	B
ATOM	2068	O	SER	B	46	15.648	66.813	75.657	1.00100.07	B
ATOM	2069	N	SER	B	47	14.124	66.918	73.993	1.00 38.59	B
ATOM	2070	CA	SER	B	47	13.366	65.745	74.386	1.00 38.59	B
ATOM	2071	CB	SER	B	47	12.578	65.294	73.161	1.00100.07	B
ATOM	2072	OG	SER	B	47	13.127	65.891	71.990	1.00100.07	B
ATOM	2073	C	SER	B	47	14.209	64.584	74.939	1.00 38.59	B
ATOM	2074	O	SER	B	47	14.948	63.947	74.213	1.00 38.59	B
ATOM	2075	N	ILE	B	48	14.104	64.311	76.227	1.00 70.20	B
ATOM	2076	CA	ILE	B	48	14.852	63.212	76.811	1.00 70.20	B
ATOM	2077	CB	ILE	B	48	16.377	63.476	76.803	1.00 23.12	B
ATOM	2078	CG2	ILE	B	48	16.930	63.501	78.213	1.00 23.12	B
ATOM	2079	CG1	ILE	B	48	17.104	62.308	76.163	1.00 23.12	B
ATOM	2080	CD	ILE	B	48	16.633	61.975	74.779	1.00 23.12	B
ATOM	2081	C	ILE	B	48	14.374	63.060	78.238	1.00 70.20	B
ATOM	2082	O	ILE	B	48	13.969	64.031	78.877	1.00 70.20	B
ATOM	2083	N	PRO	B	49	14.377	61.829	78.748	1.00 58.07	B
ATOM	2084	CD	PRO	B	49	14.511	60.549	78.028	1.00100.07	B
ATOM	2085	CA	PRO	B	49	13.933	61.621	80.122	1.00 58.07	B
ATOM	2086	CB	PRO	B	49	13.453	60.177	80.103	1.00100.07	B
ATOM	2087	CG	PRO	B	49	14.412	59.536	79.140	1.00100.07	B
ATOM	2088	C	PRO	B	49	15.115	61.844	81.055	1.00 58.07	B
ATOM	2089	O	PRO	B	49	16.239	61.457	80.733	1.00 58.07	B
ATOM	2090	N	GLY	B	50	14.860	62.482	82.195	1.00100.07	B
ATOM	2091	CA	GLY	B	50	15.912	62.746	83.165	1.00100.07	B
ATOM	2092	C	GLY	B	50	15.371	63.398	84.427	1.00100.07	B
ATOM	2093	O	GLY	B	50	14.303	64.004	84.398	1.00100.07	B
ATOM	2094	N	THR	B	51	16.092	63.283	85.538	1.00100.07	B
ATOM	2095	CA	THR	B	51	15.631	63.887	86.784	1.00100.07	B
ATOM	2096	CB	THR	B	51	15.778	62.923	87.966	1.00 84.35	B
ATOM	2097	OG1	THR	B	51	17.167	62.773	88.297	1.00 84.35	B
ATOM	2098	CG2	THR	B	51	15.193	61.575	87.611	1.00 84.35	B
ATOM	2099	C	THR	B	51	16.406	65.153	87.119	1.00100.07	B
ATOM	2100	O	THR	B	51	17.380	65.481	86.440	1.00100.07	B
ATOM	2101	N	ALA	B	52	15.978	65.854	88.170	1.00100.07	B
ATOM	2102	CA	ALA	B	52	16.643	67.090	88.593	1.00100.07	B
ATOM	2103	CB	ALA	B	52	16.751	68.046	87.397	1.00 86.61	B
ATOM	2104	C	ALA	B	52	15.947	67.807	89.763	1.00100.07	B
ATOM	2105	O	ALA	B	52	14.722	67.951	89.769	1.00100.07	B
ATOM	2106	N	VAL	B	53	16.733	68.260	90.742	1.00 64.65	B
ATOM	2107	CA	VAL	B	53	16.196	68.983	91.895	1.00 64.65	B
ATOM	2108	CB	VAL	B	53	17.323	69.551	92.777	1.00 34.06	B
ATOM	2109	CG1	VAL	B	53	16.729	70.441	93.838	1.00 34.06	B
ATOM	2110	CG2	VAL	B	53	18.126	68.430	93.409	1.00 34.06	B
ATOM	2111	C	VAL	B	53	15.374	70.155	91.380	1.00 64.65	B
ATOM	2112	O	VAL	B	53	15.663	70.691	90.309	1.00 64.65	B
ATOM	2113	N	THR	B	54	14.359	70.572	92.126	1.00 82.03	B
ATOM	2114	CA	THR	B	54	13.561	71.684	91.645	1.00 82.03	B
ATOM	2115	CB	THR	B	54	12.352	71.169	90.825	1.00 79.61	B
ATOM	2116	OG1	THR	B	54	11.675	72.280	90.213	1.00 79.61	B
ATOM	2117	CG2	THR	B	54	11.396	70.386	91.717	1.00 79.61	B
ATOM	2118	C	THR	B	54	13.103	72.710	92.687	1.00 82.03	B
ATOM	2119	O	THR	B	54	12.698	73.819	92.320	1.00 82.03	B
ATOM	2120	N	SER	B	55	13.179	72.369	93.973	1.00 99.98	B
ATOM	2121	CA	SER	B	55	12.760	73.305	95.025	1.00 99.98	B
ATOM	2122	CB	SER	B	55	11.230	73.419	95.045	1.00 44.96	B
ATOM	2123	OG	SER	B	55	10.811	74.693	95.506	1.00 44.96	B
ATOM	2124	C	SER	B	55	13.281	72.847	96.387	1.00 99.98	B
ATOM	2125	O	SER	B	55	13.313	71.652	96.664	1.00 99.98	B
ATOM	2126	N	VAL	B	56	13.685	73.787	97.241	1.00 57.66	B
ATOM	2127	CA	VAL	B	56	14.225	73.407	98.546	1.00 57.66	B
ATOM	2128	CB	VAL	B	56	15.783	73.495	98.563	1.00 56.04	B
ATOM	2129	CG1	VAL	B	56	16.360	72.603	99.672	1.00 56.04	B
ATOM	2130	CG2	VAL	B	56	16.349	73.120	97.212	1.00 56.04	B
ATOM	2131	C	VAL	B	56	13.725	74.223	99.745	1.00 57.66	B
ATOM	2132	O	VAL	B	56	13.389	75.404	99.638	1.00 57.66	B
ATOM	2133	N	TYR	B	57	13.692	73.558	100.893	1.00 97.06	B
ATOM	2134	CA	TYR	B	57	13.297	74.172	102.149	1.00 97.06	B
ATOM	2135	CB	TYR	B	57	12.014	73.532	102.694	1.00 68.12	B
ATOM	2136	CG	TYR	B	57	11.517	74.134	104.004	1.00 68.12	B
ATOM	2137	CD1	TYR	B	57	10.393	73.617	104.654	1.00 68.12	B
ATOM	2138	CE1	TYR	B	57	9.943	74.162	105.855	1.00 68.12	B
ATOM	2139	CD2	TYR	B	57	12.175	75.217	104.596	1.00 68.12	B
ATOM	2140	CE2	TYR	B	57	11.733	75.765	105.792	1.00 68.12	B
ATOM	2141	CZ	TYR	B	57	10.623	75.234	106.413	1.00 68.12	B
ATOM	2142	OH	TYR	B	57	10.210	75.775	107.602	1.00 68.12	B
ATOM	2143	C	TYR	B	57	14.476	73.880	103.075	1.00 97.06	B
ATOM	2144	O	TYR	B	57	14.679	72.738	103.502	1.00 97.06	B
ATOM	2145	N	ILE	B	58	15.252	74.917	103.374	1.00100.07	B
ATOM	2146	CA	ILE	B	58	16.440	74.781	104.215	1.00100.07	B

ATOM	1979	C	VAL	B	34	22.737	67.005	58.676	1.00	70.95	B
ATOM	1980	O	VAL	B	34	22.072	67.333	59.657	1.00	70.95	B
ATOM	1981	N	THR	B	35	22.202	66.411	57.609	1.00	92.67	B
ATOM	1982	CA	THR	B	35	20.769	66.136	57.569	1.00	92.67	B
ATOM	1983	CB	THR	B	35	20.329	65.470	56.254	1.00	31.42	B
ATOM	1984	OG1	THR	B	35	20.804	66.240	55.146	1.00	31.42	B
ATOM	1985	CG2	THR	B	35	18.800	65.441	56.171	1.00	31.42	B
ATOM	1986	C	THR	B	35	20.357	65.284	58.756	1.00	92.67	B
ATOM	1987	O	THR	B	35	19.205	65.294	59.170	1.00	92.67	B
ATOM	1988	N	LEU	B	36	21.306	64.533	59.290	1.00	29.62	B
ATOM	1989	CA	LEU	B	36	21.080	63.741	60.496	1.00	29.62	B
ATOM	1990	CB	LEU	B	36	21.480	62.274	60.310	1.00	35.43	B
ATOM	1991	CG	LEU	B	36	20.969	61.455	59.122	1.00	35.43	B
ATOM	1992	CD1	LEU	B	36	21.285	59.989	59.391	1.00	35.43	B
ATOM	1993	CD2	LEU	B	36	19.476	61.644	58.921	1.00	35.43	B
ATOM	1994	C	LEU	B	36	22.121	64.420	61.369	1.00	29.62	B
ATOM	1995	O	LEU	B	36	22.434	65.583	61.138	1.00	29.62	B
ATOM	1996	N	GLY	B	37	22.685	63.722	62.342	1.00	100.07	B
ATOM	1997	CA	GLY	B	37	23.714	64.353	63.147	1.00	100.07	B
ATOM	1998	C	GLY	B	37	23.376	65.699	63.763	1.00	100.07	B
ATOM	1999	O	GLY	B	37	24.056	66.134	64.688	1.00	100.07	B
ATOM	2000	N	ASN	B	38	22.349	66.369	63.252	1.00	74.19	B
ATOM	2001	CA	ASN	B	38	21.927	67.656	63.792	1.00	74.19	B
ATOM	2002	CB	ASN	B	38	21.734	68.669	62.668	1.00	66.42	B
ATOM	2003	CG	ASN	B	38	21.004	69.900	63.128	1.00	66.42	B
ATOM	2004	OD1	ASN	B	38	19.779	69.895	63.254	1.00	66.42	B
ATOM	2005	ND2	ASN	B	38	21.748	70.962	63.399	1.00	66.42	B
ATOM	2006	C	ASN	B	38	20.641	67.489	64.622	1.00	74.19	B
ATOM	2007	O	ASN	B	38	20.634	67.848	65.804	1.00	74.19	B
ATOM	2008	N	PRO	B	39	19.540	66.953	64.023	1.00	63.64	B
ATOM	2009	CD	PRO	B	39	19.280	66.698	62.591	1.00	38.03	B
ATOM	2010	CA	PRO	B	39	18.300	66.762	64.787	1.00	63.64	B
ATOM	2011	CB	PRO	B	39	17.389	66.067	63.778	1.00	38.03	B
ATOM	2012	CG	PRO	B	39	17.756	66.727	62.514	1.00	38.03	B
ATOM	2013	C	PRO	B	39	18.553	65.901	66.036	1.00	63.64	B
ATOM	2014	O	PRO	B	39	17.856	66.026	67.045	1.00	63.64	B
ATOM	2015	N	LEU	B	40	19.556	65.029	65.960	1.00	37.49	B
ATOM	2016	CA	LEU	B	40	19.912	64.169	67.088	1.00	37.49	B
ATOM	2017	CB	LEU	B	40	20.729	62.953	66.623	1.00	37.14	B
ATOM	2018	CG	LEU	B	40	20.066	61.926	65.699	1.00	37.14	B
ATOM	2019	CD1	LEU	B	40	19.043	61.090	66.451	1.00	37.14	B
ATOM	2020	CD2	LEU	B	40	19.425	62.664	64.524	1.00	37.14	B
ATOM	2021	C	LEU	B	40	20.711	64.951	68.131	1.00	37.49	B
ATOM	2022	O	LEU	B	40	21.082	64.419	69.179	1.00	37.49	B
ATOM	2023	N	ALA	B	41	20.997	66.209	67.819	1.00	46.88	B
ATOM	2024	CA	ALA	B	41	21.713	67.088	68.732	1.00	46.88	B
ATOM	2025	CB	ALA	B	41	22.657	68.005	67.956	1.00	38.70	B
ATOM	2026	C	ALA	B	41	20.575	67.892	69.333	1.00	46.88	B
ATOM	2027	O	ALA	B	41	20.412	67.984	70.551	1.00	46.88	B
ATOM	2028	N	ARG	B	42	19.771	68.452	68.443	1.00	83.52	B
ATOM	2029	CA	ARG	B	42	18.626	69.239	68.838	1.00	83.52	B
ATOM	2030	CB	ARG	B	42	17.852	69.664	67.588	1.00	47.50	B
ATOM	2031	CG	ARG	B	42	16.967	70.854	67.795	1.00	47.50	B
ATOM	2032	CD	ARG	B	42	16.745	71.594	66.505	1.00	47.50	B
ATOM	2033	NE	ARG	B	42	16.086	72.869	66.766	1.00	47.50	B
ATOM	2034	CZ	ARG	B	42	16.180	73.943	65.982	1.00	47.50	B
ATOM	2035	NH1	ARG	B	42	16.915	73.896	64.872	1.00	47.50	B
ATOM	2036	NH2	ARG	B	42	15.538	75.068	66.304	1.00	47.50	B
ATOM	2037	C	ARG	B	42	17.763	68.393	69.767	1.00	83.52	B
ATOM	2038	O	ARG	B	42	17.449	68.810	70.880	1.00	83.52	B
ATOM	2039	N	ILE	B	43	17.402	67.193	69.323	1.00	45.38	B
ATOM	2040	CA	ILE	B	43	16.582	66.310	70.144	1.00	45.38	B
ATOM	2041	CB	ILE	B	43	16.111	65.095	69.327	1.00	28.38	B
ATOM	2042	CG2	ILE	B	43	15.238	64.199	70.162	1.00	28.38	B
ATOM	2043	CG1	ILE	B	43	15.302	65.586	68.134	1.00	28.38	B
ATOM	2044	CD	ILE	B	43	14.384	66.738	68.483	1.00	28.38	B
ATOM	2045	C	ILE	B	43	17.365	65.859	71.362	1.00	45.38	B
ATOM	2046	O	ILE	B	43	16.832	65.822	72.461	1.00	45.38	B
ATOM	2047	N	LEU	B	44	18.641	65.546	71.159	1.00	45.50	B
ATOM	2048	CA	LEU	B	44	19.514	65.096	72.235	1.00	45.50	B
ATOM	2049	CB	LEU	B	44	20.947	64.963	71.711	1.00	98.53	B
ATOM	2050	CG	LEU	B	44	21.892	63.909	72.293	1.00	98.53	B
ATOM	2051	CD1	LEU	B	44	21.212	63.119	73.402	1.00	98.53	B
ATOM	2052	CD2	LEU	B	44	22.317	62.980	71.177	1.00	98.53	B
ATOM	2053	C	LEU	B	44	19.486	66.066	73.405	1.00	45.50	B
ATOM	2054	O	LEU	B	44	19.348	65.647	74.557	1.00	45.50	B
ATOM	2055	N	LEU	B	45	19.627	67.359	73.102	1.00	99.98	B
ATOM	2056	CA	LEU	B	45	19.623	68.414	74.119	1.00	99.98	B
ATOM	2057	CB	LEU	B	45	20.164	69.734	73.546	1.00	40.52	B
ATOM	2058	CG	LEU	B	45	21.635	69.861	73.113	1.00	40.52	B
ATOM	2059	CD1	LEU	B	45	21.895	71.293	72.646	1.00	40.52	B
ATOM	2060	CD2	LEU	B	45	22.579	69.500	74.272	1.00	40.52	B
ATOM	2061	C	LEU	B	45	18.213	68.641	74.624	1.00	99.98	B
ATOM	2062	O	LEU	B	45	18.015	69.006	75.781	1.00	99.98	B

ATOM	2147	CB	ILE	B	58	17.664	75.444	103.525	1.00100.07	B
ATOM	2148	CG2	ILE	B	58	18.924	75.227	104.360	1.00100.07	B
ATOM	2149	CG1	ILE	B	58	17.849	74.861	102.116	1.00100.07	B
ATOM	2150	CD	ILE	B	58	16.813	75.317	101.116	1.00100.07	B
ATOM	2151	C	ILE	B	58	16.277	75.366	105.619	1.00100.07	B
ATOM	2152	O	ILE	B	58	17.025	76.261	106.026	1.00100.07	B
ATOM	2153	N	GLU	B	59	15.304	74.831	106.352	1.00100.07	B
ATOM	2154	CA	GLU	B	59	14.995	75.268	107.709	1.00100.07	B
ATOM	2155	CB	GLU	B	59	15.542	74.270	108.729	1.00100.07	B
ATOM	2156	CG	GLU	B	59	15.261	74.684	110.174	1.00100.07	B
ATOM	2157	CD	GLU	B	59	13.787	75.006	110.432	1.00100.07	B
ATOM	2158	OE1	GLU	B	59	13.222	75.870	109.724	1.00100.07	B
ATOM	2159	OE2	GLU	B	59	13.195	74.399	111.353	1.00100.07	B
ATOM	2160	C	GLU	B	59	15.462	76.678	108.078	1.00100.07	B
ATOM	2161	O	GLU	B	59	16.634	76.883	108.402	1.00100.07	B
ATOM	2162	N	ASP	B	60	14.522	77.626	108.014	1.00100.07	B
ATOM	2163	CA	ASP	B	60	14.697	79.051	108.350	1.00100.07	B
ATOM	2164	CB	ASP	B	60	16.106	79.341	108.903	1.00100.07	B
ATOM	2165	CG	ASP	B	60	16.198	79.114	110.421	1.00100.07	B
ATOM	2166	OD1	ASP	B	60	15.478	79.798	111.181	1.00100.07	B
ATOM	2167	OD2	ASP	B	60	16.987	78.252	110.858	1.00100.07	B
ATOM	2168	C	ASP	B	60	14.314	80.089	107.269	1.00100.07	B
ATOM	2169	O	ASP	B	60	13.188	80.055	106.757	1.00100.07	B
ATOM	2170	N	VAL	B	61	15.224	81.003	106.922	1.00 30.98	B
ATOM	2171	CA	VAL	B	61	14.915	82.070	105.954	1.00 30.98	B
ATOM	2172	CB	VAL	B	61	16.120	83.004	105.737	1.00 99.92	B
ATOM	2173	CG1	VAL	B	61	15.640	84.320	105.139	1.00 99.92	B
ATOM	2174	CG2	VAL	B	61	16.850	83.236	107.052	1.00 99.92	B
ATOM	2175	C	VAL	B	61	14.423	81.641	104.572	1.00 30.98	B
ATOM	2176	O	VAL	B	61	14.744	80.556	104.077	1.00 30.98	B
ATOM	2177	N	LEU	B	62	13.647	82.522	103.949	1.00 90.28	B
ATOM	2178	CA	LEU	B	62	13.080	82.253	102.636	1.00 90.28	B
ATOM	2179	CB	LEU	B	62	11.783	83.057	102.446	1.00100.07	B
ATOM	2180	CG	LEU	B	62	11.089	83.054	101.074	1.00100.07	B
ATOM	2181	CD1	LEU	B	62	10.931	81.636	100.557	1.00100.07	B
ATOM	2182	CD2	LEU	B	62	9.741	83.742	101.187	1.00100.07	B
ATOM	2183	C	LEU	B	62	14.028	82.520	101.470	1.00 90.28	B
ATOM	2184	O	LEU	B	62	15.025	81.821	101.302	1.00 90.28	B
ATOM	2185	N	HIS	B	63	13.707	83.538	100.676	1.00 50.34	B
ATOM	2186	CA	HIS	B	63	14.475	83.909	99.487	1.00 50.34	B
ATOM	2187	CB	HIS	B	63	14.419	85.434	99.257	1.00100.07	B
ATOM	2188	CG	HIS	B	63	15.116	86.251	100.305	1.00100.07	B
ATOM	2189	CD2	HIS	B	63	16.013	87.260	100.193	1.00100.07	B
ATOM	2190	ND1	HIS	B	63	14.862	86.114	101.653	1.00100.07	B
ATOM	2191	CE1	HIS	B	63	15.571	87.004	102.326	1.00100.07	B
ATOM	2192	NE2	HIS	B	63	16.278	87.712	101.463	1.00100.07	B
ATOM	2193	C	HIS	B	63	15.923	83.435	99.419	1.00 50.34	B
ATOM	2194	O	HIS	B	63	16.675	83.534	100.391	1.00 50.34	B
ATOM	2195	N	GLU	B	64	16.304	82.921	98.252	1.00 64.80	B
ATOM	2196	CA	GLU	B	64	17.659	82.421	98.020	1.00 64.80	B
ATOM	2197	CB	GLU	B	64	17.907	82.200	96.523	1.00100.07	B
ATOM	2198	CG	GLU	B	64	19.341	81.801	96.198	1.00100.07	B
ATOM	2199	CD	GLU	B	64	19.621	81.714	94.707	1.00100.07	B
ATOM	2200	OE1	GLU	B	64	19.506	82.748	94.012	1.00100.07	B
ATOM	2201	OE2	GLU	B	64	19.962	80.608	94.231	1.00100.07	B
ATOM	2202	C	GLU	B	64	18.719	83.380	98.549	1.00 64.80	B
ATOM	2203	O	GLU	B	64	19.885	83.022	98.691	1.00 64.80	B
ATOM	2204	N	PHE	B	65	18.291	84.601	98.839	1.00 78.74	B
ATOM	2205	CA	PHE	B	65	19.187	85.634	99.318	1.00 78.74	B
ATOM	2206	CB	PHE	B	65	18.838	86.964	98.639	1.00100.07	B
ATOM	2207	CG	PHE	B	65	18.214	86.807	97.268	1.00100.07	B
ATOM	2208	CD1	PHE	B	65	16.855	86.496	97.136	1.00100.07	B
ATOM	2209	CD2	PHE	B	65	18.983	86.962	96.111	1.00100.07	B
ATOM	2210	CE1	PHE	B	65	16.272	86.342	95.871	1.00100.07	B
ATOM	2211	CE2	PHE	B	65	18.412	86.809	94.840	1.00100.07	B
ATOM	2212	CZ	PHE	B	65	17.057	86.499	94.719	1.00100.07	B
ATOM	2213	C	PHE	B	65	19.125	85.784	100.833	1.00 78.74	B
ATOM	2214	O	PHE	B	65	18.567	86.748	101.355	1.00 78.74	B
ATOM	2215	N	SER	B	66	19.706	84.821	101.535	1.00100.07	B
ATOM	2216	CA	SER	B	66	19.735	84.855	102.988	1.00100.07	B
ATOM	2217	CB	SER	B	66	18.663	83.929	103.558	1.00100.07	B
ATOM	2218	OG	SER	B	66	17.381	84.320	103.099	1.00100.07	B
ATOM	2219	C	SER	B	66	21.116	84.422	103.437	1.00100.07	B
ATOM	2220	O	SER	B	66	22.079	84.571	102.682	1.00100.07	B
ATOM	2221	N	THR	B	67	21.220	83.901	104.658	1.00100.07	B
ATOM	2222	CA	THR	B	67	22.505	83.430	105.179	1.00100.07	B
ATOM	2223	CB	THR	B	67	23.479	84.621	105.500	1.00100.07	B
ATOM	2224	OG1	THR	B	67	23.948	85.214	104.280	1.00100.07	B
ATOM	2225	CG2	THR	B	67	24.689	84.132	106.301	1.00100.07	B
ATOM	2226	C	THR	B	67	22.356	82.572	106.434	1.00100.07	B
ATOM	2227	O	THR	B	67	22.077	83.079	107.524	1.00100.07	B
ATOM	2228	N	ILE	B	68	22.525	81.265	106.270	1.00 43.12	B
ATOM	2229	CA	ILE	B	68	22.460	80.366	107.405	1.00 43.12	B
ATOM	2230	CB	ILE	B	68	22.307	78.888	106.978	1.00 99.22	B

ATOM	2231	CG2	ILE	B	68	20.840	78.547	106.831	1.00	99.22	B
ATOM	2232	CG1	ILE	B	68	23.070	78.624	105.675	1.00	99.22	B
ATOM	2233	CD	ILE	B	68	24.567	78.813	105.764	1.00	99.22	B
ATOM	2234	C	ILE	B	68	23.782	80.530	108.144	1.00	43.12	B
ATOM	2235	O	ILE	B	68	24.797	80.913	107.551	1.00	43.12	B
ATOM	2236	N	PRO	B	69	23.774	80.285	109.459	1.00	70.41	B
ATOM	2237	CD	PRO	B	69	22.564	80.388	110.294	1.00	100.07	B
ATOM	2238	CA	PRO	B	69	24.979	80.397	110.284	1.00	70.41	B
ATOM	2239	CB	PRO	B	69	24.468	81.105	111.526	1.00	100.07	B
ATOM	2240	CG	PRO	B	69	23.140	80.455	111.706	1.00	100.07	B
ATOM	2241	C	PRO	B	69	25.594	79.023	110.592	1.00	70.41	B
ATOM	2242	O	PRO	B	69	24.975	77.974	110.366	1.00	70.41	B
ATOM	2243	N	GLY	B	70	26.818	79.039	111.105	1.00	91.68	B
ATOM	2244	CA	GLY	B	70	27.495	77.799	111.420	1.00	91.68	B
ATOM	2245	C	GLY	B	70	27.838	77.080	110.139	1.00	91.68	B
ATOM	2246	O	GLY	B	70	28.435	76.008	110.162	1.00	91.68	B
ATOM	2247	N	VAL	B	71	27.450	77.687	109.019	1.00	100.07	B
ATOM	2248	CA	VAL	B	71	27.707	77.141	107.691	1.00	100.07	B
ATOM	2249	CB	VAL	B	71	26.416	76.679	107.017	1.00	99.79	B
ATOM	2250	CG1	VAL	B	71	26.748	75.750	105.869	1.00	99.79	B
ATOM	2251	CG2	VAL	B	71	25.504	76.016	108.029	1.00	99.79	B
ATOM	2252	C	VAL	B	71	28.334	78.227	106.828	1.00	100.07	B
ATOM	2253	O	VAL	B	71	27.660	79.177	106.425	1.00	100.07	B
ATOM	2254	N	LYS	B	72	29.623	78.074	106.543	1.00	92.37	B
ATOM	2255	CA	LYS	B	72	30.364	79.052	105.756	1.00	92.37	B
ATOM	2256	CB	LYS	B	72	31.840	78.655	105.695	1.00	99.35	B
ATOM	2257	CG	LYS	B	72	32.502	78.707	107.057	1.00	99.35	B
ATOM	2258	CD	LYS	B	72	32.255	80.071	107.708	1.00	99.35	B
ATOM	2259	CE	LYS	B	72	32.632	80.090	109.189	1.00	99.35	B
ATOM	2260	NZ	LYS	B	72	32.395	81.428	109.816	1.00	99.35	B
ATOM	2261	C	LYS	B	72	29.819	79.297	104.355	1.00	92.37	B
ATOM	2262	O	LYS	B	72	29.843	80.421	103.854	1.00	92.37	B
ATOM	2263	N	GLU	B	73	29.315	78.250	103.725	1.00	76.40	B
ATOM	2264	CA	GLU	B	73	28.780	78.391	102.392	1.00	76.40	B
ATOM	2265	CB	GLU	B	73	28.687	77.015	101.766	1.00	93.16	B
ATOM	2266	CG	GLU	B	73	30.060	76.455	101.540	1.00	93.16	B
ATOM	2267	CD	GLU	B	73	30.054	74.997	101.206	1.00	93.16	B
ATOM	2268	OE1	GLU	B	73	29.239	74.575	100.365	1.00	93.16	B
ATOM	2269	OE2	GLU	B	73	30.882	74.271	101.778	1.00	93.16	B
ATOM	2270	C	GLU	B	73	27.436	79.085	102.413	1.00	76.40	B
ATOM	2271	O	GLU	B	73	26.526	78.645	103.098	1.00	76.40	B
ATOM	2272	N	ASP	B	74	27.318	80.181	101.671	1.00	37.10	B
ATOM	2273	CA	ASP	B	74	26.066	80.938	101.609	1.00	37.10	B
ATOM	2274	CB	ASP	B	74	26.264	82.215	100.798	1.00	88.96	B
ATOM	2275	CG	ASP	B	74	25.746	82.082	99.380	1.00	88.96	B
ATOM	2276	OD1	ASP	B	74	26.090	81.086	98.716	1.00	88.96	B
ATOM	2277	OD2	ASP	B	74	24.994	82.970	98.931	1.00	88.96	B
ATOM	2278	C	ASP	B	74	24.929	80.140	100.973	1.00	37.10	B
ATOM	2279	O	ASP	B	74	25.138	79.040	100.467	1.00	37.10	B
ATOM	2280	N	VAL	B	75	23.725	80.704	100.994	1.00	45.70	B
ATOM	2281	CA	VAL	B	75	22.567	80.056	100.376	1.00	45.70	B
ATOM	2282	CB	VAL	B	75	21.300	80.980	100.389	1.00	55.69	B
ATOM	2283	CG1	VAL	B	75	20.453	80.723	101.619	1.00	55.69	B
ATOM	2284	CG2	VAL	B	75	21.726	82.439	100.351	1.00	55.69	B
ATOM	2285	C	VAL	B	75	22.914	79.792	98.913	1.00	45.70	B
ATOM	2286	O	VAL	B	75	23.454	78.745	98.561	1.00	45.70	B
ATOM	2287	N	VAL	B	76	22.597	80.776	98.080	1.00	63.40	B
ATOM	2288	CA	VAL	B	76	22.824	80.726	96.645	1.00	63.40	B
ATOM	2289	CB	VAL	B	76	23.401	82.055	96.140	1.00	99.98	B
ATOM	2290	CG1	VAL	B	76	23.499	82.035	94.625	1.00	99.98	B
ATOM	2291	CG2	VAL	B	76	22.525	83.203	96.606	1.00	99.98	B
ATOM	2292	C	VAL	B	76	23.729	79.607	96.153	1.00	63.40	B
ATOM	2293	O	VAL	B	76	23.320	78.818	95.302	1.00	63.40	B
ATOM	2294	N	GLU	B	77	24.952	79.525	96.674	1.00	65.02	B
ATOM	2295	CA	GLU	B	77	25.864	78.483	96.209	1.00	65.02	B
ATOM	2296	CB	GLU	B	77	27.284	78.671	96.749	1.00	88.18	B
ATOM	2297	CG	GLU	B	77	28.295	77.797	96.008	1.00	88.18	B
ATOM	2298	CD	GLU	B	77	29.653	78.458	95.826	1.00	88.18	B
ATOM	2299	OE1	GLU	B	77	30.512	78.309	96.719	1.00	88.18	B
ATOM	2300	OE2	GLU	B	77	29.860	79.132	94.791	1.00	88.18	B
ATOM	2301	C	GLU	B	77	25.376	77.094	96.551	1.00	65.02	B
ATOM	2302	O	GLU	B	77	25.518	76.174	95.751	1.00	65.02	B
ATOM	2303	N	ILE	B	78	24.814	76.918	97.738	1.00	50.01	B
ATOM	2304	CA	ILE	B	78	24.287	75.608	98.061	1.00	50.01	B
ATOM	2305	CB	ILE	B	78	23.658	75.562	99.460	1.00	60.32	B
ATOM	2306	CG2	ILE	B	78	22.766	74.349	99.585	1.00	60.32	B
ATOM	2307	CG1	ILE	B	78	24.772	75.496	100.511	1.00	60.32	B
ATOM	2308	CD	ILE	B	78	24.294	75.467	101.944	1.00	60.32	B
ATOM	2309	C	ILE	B	78	23.248	75.341	96.983	1.00	50.01	B
ATOM	2310	O	ILE	B	78	23.340	74.344	96.266	1.00	50.01	B
ATOM	2311	N	ILE	B	79	22.291	76.259	96.847	1.00	57.29	B
ATOM	2312	CA	ILE	B	79	21.243	76.146	95.831	1.00	57.29	B
ATOM	2313	CB	ILE	B	79	20.613	77.521	95.478	1.00	74.38	B
ATOM	2314	CG2	ILE	B	79	19.882	77.435	94.140	1.00	74.38	B

ATOM	2315	CG1	ILE	B	79	19.638	77.959	96.577	1.00	74.38	B
ATOM	2316	CD	ILE	B	79	20.258	78.119	97.955	1.00	74.38	B
ATOM	2317	C	ILE	B	79	21.870	75.589	94.571	1.00	57.29	B
ATOM	2318	O	ILE	B	79	21.400	74.600	94.018	1.00	57.29	B
ATOM	2319	N	LEU	B	80	22.940	76.230	94.121	1.00	99.36	B
ATOM	2320	CA	LEU	B	80	23.629	75.777	92.928	1.00	99.36	B
ATOM	2321	CB	LEU	B	80	24.823	76.671	92.628	1.00	53.04	B
ATOM	2322	CG	LEU	B	80	24.414	78.118	92.392	1.00	53.04	B
ATOM	2323	CD1	LEU	B	80	25.616	78.903	91.898	1.00	53.04	B
ATOM	2324	CD2	LEU	B	80	23.278	78.168	91.373	1.00	53.04	B
ATOM	2325	C	LEU	B	80	24.087	74.342	93.115	1.00	99.36	B
ATOM	2326	O	LEU	B	80	23.738	73.467	92.325	1.00	99.36	B
ATOM	2327	N	ASN	B	81	24.867	74.104	94.164	1.00	53.66	B
ATOM	2328	CA	ASN	B	81	25.363	72.770	94.451	1.00	53.66	B
ATOM	2329	CB	ASN	B	81	25.774	72.670	95.909	1.00	46.42	B
ATOM	2330	CG	ASN	B	81	27.002	73.492	96.221	1.00	46.42	B
ATOM	2331	OD1	ASN	B	81	28.100	73.187	95.748	1.00	46.42	B
ATOM	2332	ND2	ASN	B	81	26.829	74.546	97.022	1.00	46.42	B
ATOM	2333	C	ASN	B	81	24.252	71.775	94.177	1.00	53.66	B
ATOM	2334	O	ASN	B	81	24.300	71.013	93.211	1.00	53.66	B
ATOM	2335	N	LEU	B	82	23.235	71.798	95.024	1.00	89.22	B
ATOM	2336	CA	LEU	B	82	22.120	70.890	94.851	1.00	89.22	B
ATOM	2337	CB	LEU	B	82	20.923	71.322	95.691	1.00	100.07	B
ATOM	2338	CG	LEU	B	82	21.135	71.451	97.195	1.00	100.07	B
ATOM	2339	CD1	LEU	B	82	19.782	71.769	97.825	1.00	100.07	B
ATOM	2340	CD2	LEU	B	82	21.743	70.163	97.782	1.00	100.07	B
ATOM	2341	C	LEU	B	82	21.690	70.839	93.397	1.00	89.22	B
ATOM	2342	O	LEU	B	82	21.331	69.778	92.889	1.00	89.22	B
ATOM	2343	N	LYS	B	83	21.739	71.989	92.730	1.00	68.47	B
ATOM	2344	CA	LYS	B	83	21.317	72.079	91.340	1.00	68.47	B
ATOM	2345	CB	LYS	B	83	21.372	73.532	90.844	1.00	56.25	B
ATOM	2346	CG	LYS	B	83	20.603	73.751	89.557	1.00	56.25	B
ATOM	2347	CD	LYS	B	83	19.744	75.012	89.581	1.00	56.25	B
ATOM	2348	CE	LYS	B	83	20.558	76.290	89.398	1.00	56.25	B
ATOM	2349	NZ	LYS	B	83	19.686	77.513	89.264	1.00	56.25	B
ATOM	2350	C	LYS	B	83	22.146	71.182	90.444	1.00	68.47	B
ATOM	2351	O	LYS	B	83	21.905	71.096	89.239	1.00	68.47	B
ATOM	2352	N	GLU	B	84	23.114	70.496	91.039	1.00	76.12	B
ATOM	2353	CA	GLU	B	84	23.958	69.602	90.271	1.00	76.12	B
ATOM	2354	CB	GLU	B	84	25.357	70.194	90.136	1.00	90.31	B
ATOM	2355	CG	GLU	B	84	26.220	69.540	89.074	1.00	90.31	B
ATOM	2356	CD	GLU	B	84	27.502	70.312	88.847	1.00	90.31	B
ATOM	2357	OE1	GLU	B	84	28.140	70.682	89.851	1.00	90.31	B
ATOM	2358	OE2	GLU	B	84	27.873	70.551	87.678	1.00	90.31	B
ATOM	2359	C	GLU	B	84	24.028	68.227	90.910	1.00	76.12	B
ATOM	2360	O	GLU	B	84	24.938	67.456	90.625	1.00	76.12	B
ATOM	2361	N	LEU	B	85	23.083	67.921	91.793	1.00	100.07	B
ATOM	2362	CA	LEU	B	85	23.062	66.596	92.395	1.00	100.07	B
ATOM	2363	CB	LEU	B	85	22.049	66.515	93.537	1.00	57.77	B
ATOM	2364	CG	LEU	B	85	21.985	65.124	94.184	1.00	57.77	B
ATOM	2365	CD1	LEU	B	85	23.352	64.756	94.747	1.00	57.77	B
ATOM	2366	CD2	LEU	B	85	20.930	65.088	95.281	1.00	57.77	B
ATOM	2367	C	LEU	B	85	22.615	65.708	91.241	1.00	100.07	B
ATOM	2368	O	LEU	B	85	22.203	66.224	90.202	1.00	100.07	B
ATOM	2369	N	VAL	B	86	22.697	64.390	91.397	1.00	99.56	B
ATOM	2370	CA	VAL	B	86	22.271	63.486	90.325	1.00	99.56	B
ATOM	2371	CB	VAL	B	86	23.481	62.905	89.573	1.00	42.86	B
ATOM	2372	CG1	VAL	B	86	23.065	62.469	88.177	1.00	42.86	B
ATOM	2373	CG2	VAL	B	86	24.590	63.924	89.513	1.00	42.86	B
ATOM	2374	C	VAL	B	86	21.470	62.313	90.892	1.00	99.56	B
ATOM	2375	O	VAL	B	86	22.038	61.339	91.398	1.00	99.56	B
ATOM	2376	N	VAL	B	87	20.149	62.411	90.794	1.00	100.07	B
ATOM	2377	CA	VAL	B	87	19.269	61.376	91.306	1.00	100.07	B
ATOM	2378	CB	VAL	B	87	17.961	61.986	91.861	1.00	99.71	B
ATOM	2379	CG1	VAL	B	87	17.043	60.886	92.365	1.00	99.71	B
ATOM	2380	CG2	VAL	B	87	18.275	62.956	92.985	1.00	99.71	B
ATOM	2381	C	VAL	B	87	18.915	60.363	90.238	1.00	100.07	B
ATOM	2382	O	VAL	B	87	18.779	60.710	89.061	1.00	100.07	B
ATOM	2383	N	ARG	B	88	18.775	59.109	90.665	1.00	100.07	B
ATOM	2384	CA	ARG	B	88	18.416	58.008	89.775	1.00	100.07	B
ATOM	2385	CB	ARG	B	88	19.603	57.072	89.570	1.00	100.07	B
ATOM	2386	CG	ARG	B	88	19.301	55.915	88.648	1.00	100.07	B
ATOM	2387	CD	ARG	B	88	20.429	54.931	88.698	1.00	100.07	B
ATOM	2388	NE	ARG	B	88	20.029	53.615	88.221	1.00	100.07	B
ATOM	2389	CZ	ARG	B	88	20.732	52.509	88.443	1.00	100.07	B
ATOM	2390	NH1	ARG	B	88	21.867	52.577	89.135	1.00	100.07	B
ATOM	2391	NH2	ARG	B	88	20.303	51.335	87.984	1.00	100.07	B
ATOM	2392	C	ARG	B	88	17.236	57.222	90.335	1.00	100.07	B
ATOM	2393	O	ARG	B	88	17.420	56.208	91.014	1.00	100.07	B
ATOM	2394	N	PHE	B	89	16.027	57.704	90.050	1.00	100.07	B
ATOM	2395	CA	PHE	B	89	14.810	57.045	90.506	1.00	100.07	B
ATOM	2396	CB	PHE	B	89	13.577	57.694	89.876	1.00	72.11	B
ATOM	2397	CG	PHE	B	89	13.375	59.130	90.269	1.00	72.11	B
ATOM	2398	CD1	PHE	B	89	13.865	59.613	91.484	1.00	72.11	B

ATOM	2399	CD2	PHE	B	89	12.631	59.984	89.458	1.00	72.11	B
ATOM	2400	CE1	PHE	B	89	13.609	60.920	91.884	1.00	72.11	B
ATOM	2401	CE2	PHE	B	89	12.369	61.296	89.849	1.00	72.11	B
ATOM	2402	CZ	PHE	B	89	12.856	61.764	91.062	1.00	72.11	B
ATOM	2403	C	PHE	B	89	14.878	55.583	90.080	1.00	100.07	B
ATOM	2404	O	PHE	B	89	15.720	55.211	89.264	1.00	100.07	B
ATOM	2405	N	LEU	B	90	13.993	54.754	90.619	1.00	100.07	B
ATOM	2406	CA	LEU	B	90	14.003	53.341	90.263	1.00	100.07	B
ATOM	2407	CB	LEU	B	90	14.628	52.522	91.389	1.00	93.06	B
ATOM	2408	CG	LEU	B	90	16.127	52.704	91.604	1.00	93.06	B
ATOM	2409	CD1	LEU	B	90	16.568	51.930	92.851	1.00	93.06	B
ATOM	2410	CD2	LEU	B	90	16.866	52.229	90.356	1.00	93.06	B
ATOM	2411	C	LEU	B	90	12.615	52.805	89.982	1.00	100.07	B
ATOM	2412	O	LEU	B	90	12.437	51.956	89.102	1.00	100.07	B
ATOM	2413	N	ASP	B	91	11.637	53.284	90.748	1.00	100.07	B
ATOM	2414	CA	ASP	B	91	10.253	52.859	90.564	1.00	100.07	B
ATOM	2415	CB	ASP	B	91	9.321	53.600	91.545	1.00	100.07	B
ATOM	2416	CG	ASP	B	91	9.329	52.991	92.948	1.00	100.07	B
ATOM	2417	OD1	ASP	B	91	9.179	51.756	93.064	1.00	100.07	B
ATOM	2418	OD2	ASP	B	91	9.471	53.746	93.937	1.00	100.07	B
ATOM	2419	C	ASP	B	91	9.845	53.161	89.117	1.00	100.07	B
ATOM	2420	O	ASP	B	91	10.682	53.488	88.276	1.00	100.07	B
ATOM	2421	N	PRO	B	92	8.554	53.042	88.801	1.00	99.91	B
ATOM	2422	CD	PRO	B	92	7.463	52.328	89.492	1.00	100.07	B
ATOM	2423	CA	PRO	B	92	8.186	53.333	87.416	1.00	99.91	B
ATOM	2424	CB	PRO	B	92	7.138	52.280	87.132	1.00	100.07	B
ATOM	2425	CG	PRO	B	92	6.360	52.296	88.434	1.00	100.07	B
ATOM	2426	C	PRO	B	92	7.592	54.723	87.345	1.00	99.91	B
ATOM	2427	O	PRO	B	92	7.528	55.342	86.283	1.00	99.91	B
ATOM	2428	N	ARG	B	93	7.136	55.184	88.501	1.00	99.05	B
ATOM	2429	CA	ARG	B	93	6.524	56.490	88.647	1.00	99.05	B
ATOM	2430	CB	ARG	B	93	5.059	56.313	89.046	1.00	100.07	B
ATOM	2431	CG	ARG	B	93	4.286	57.591	89.294	1.00	100.07	B
ATOM	2432	CD	ARG	B	93	3.730	58.184	88.012	1.00	100.07	B
ATOM	2433	NE	ARG	B	93	2.691	59.169	88.314	1.00	100.07	B
ATOM	2434	CZ	ARG	B	93	1.973	59.818	87.400	1.00	100.07	B
ATOM	2435	NH1	ARG	B	93	2.179	59.589	86.106	1.00	100.07	B
ATOM	2436	NH2	ARG	B	93	1.042	60.691	87.779	1.00	100.07	B
ATOM	2437	C	ARG	B	93	7.300	57.174	89.765	1.00	99.05	B
ATOM	2438	O	ARG	B	93	7.943	56.495	90.570	1.00	99.05	B
ATOM	2439	N	TRP	B	94	7.258	58.504	89.815	1.00	100.07	B
ATOM	2440	CA	TRP	B	94	7.968	59.221	90.866	1.00	100.07	B
ATOM	2441	CB	TRP	B	94	9.455	58.871	90.827	1.00	100.07	B
ATOM	2442	CG	TRP	B	94	9.992	58.360	92.132	1.00	100.07	B
ATOM	2443	CD2	TRP	B	94	9.241	57.780	93.201	1.00	100.07	B
ATOM	2444	CE2	TRP	B	94	10.172	57.412	94.210	1.00	100.07	B
ATOM	2445	CE3	TRP	B	94	7.881	57.538	93.426	1.00	100.07	B
ATOM	2446	CD1	TRP	B	94	11.296	58.317	92.511	1.00	100.07	B
ATOM	2447	NE1	TRP	B	94	11.419	57.751	93.754	1.00	100.07	B
ATOM	2448	CZ2	TRP	B	94	9.785	56.805	95.406	1.00	100.07	B
ATOM	2449	CZ3	TRP	B	94	7.489	56.934	94.617	1.00	100.07	B
ATOM	2450	CH2	TRP	B	94	8.444	56.579	95.598	1.00	100.07	B
ATOM	2451	C	TRP	B	94	7.817	60.741	90.843	1.00	100.07	B
ATOM	2452	O	TRP	B	94	7.075	61.297	90.026	1.00	100.07	B
ATOM	2453	N	ARG	B	95	8.552	61.379	91.760	1.00	100.04	B
ATOM	2454	CA	ARG	B	95	8.607	62.831	91.981	1.00	100.04	B
ATOM	2455	CB	ARG	B	95	7.344	63.530	91.450	1.00	100.07	B
ATOM	2456	CG	ARG	B	95	7.514	64.026	90.017	1.00	100.07	B
ATOM	2457	CD	ARG	B	95	6.233	64.517	89.363	1.00	100.07	B
ATOM	2458	NE	ARG	B	95	6.537	65.143	88.075	1.00	100.07	B
ATOM	2459	CZ	ARG	B	95	5.631	65.504	87.169	1.00	100.07	B
ATOM	2460	NH1	ARG	B	95	4.336	65.300	87.402	1.00	100.07	B
ATOM	2461	NH2	ARG	B	95	6.020	66.073	86.030	1.00	100.07	B
ATOM	2462	C	ARG	B	95	8.732	63.047	93.489	1.00	100.04	B
ATOM	2463	O	ARG	B	95	8.072	63.909	94.072	1.00	100.04	B
ATOM	2464	N	THR	B	96	9.602	62.240	94.094	1.00	53.76	B
ATOM	2465	CA	THR	B	96	9.877	62.226	95.532	1.00	53.76	B
ATOM	2466	CB	THR	B	96	10.996	61.214	95.862	1.00	100.07	B
ATOM	2467	OG1	THR	B	96	11.042	60.200	94.852	1.00	100.07	B
ATOM	2468	CG2	THR	B	96	10.738	60.558	97.209	1.00	100.07	B
ATOM	2469	C	THR	B	96	10.283	63.528	96.198	1.00	53.76	B
ATOM	2470	O	THR	B	96	9.967	64.620	95.736	1.00	53.76	B
ATOM	2471	N	THR	B	97	10.992	63.375	97.309	1.00	66.01	B
ATOM	2472	CA	THR	B	97	11.477	64.489	98.109	1.00	66.01	B
ATOM	2473	CB	THR	B	97	10.568	64.756	99.333	1.00	84.61	B
ATOM	2474	OG1	THR	B	97	9.191	64.675	98.942	1.00	84.61	B
ATOM	2475	CG2	THR	B	97	10.839	66.143	99.901	1.00	84.61	B
ATOM	2476	C	THR	B	97	12.828	64.041	98.618	1.00	66.01	B
ATOM	2477	O	THR	B	97	13.371	63.045	98.138	1.00	66.01	B
ATOM	2478	N	LEU	B	98	13.358	64.766	99.595	1.00	90.84	B
ATOM	2479	CA	LEU	B	98	14.645	64.432	100.179	1.00	90.84	B
ATOM	2480	CB	LEU	B	98	15.766	64.668	99.171	1.00	100.07	B
ATOM	2481	CG	LEU	B	98	16.072	63.438	98.317	1.00	100.07	B
ATOM	2482	CD1	LEU	B	98	17.106	63.793	97.265	1.00	100.07	B

ATOM	2483	CD2	LEU	B	98	16.553	62.298	99.214	1.00100.07	B
ATOM	2484	C	LEU	B	98	14.936	65.189	101.459	1.00 90.84	B
ATOM	2485	O	LEU	B	98	14.724	66.400	101.570	1.00 90.84	B
ATOM	2486	N	ILE	B	99	15.443	64.443	102.426	1.00100.07	B
ATOM	2487	CA	ILE	B	99	15.764	64.996	103.715	1.00100.07	B
ATOM	2488	CB	ILE	B	99	15.091	64.178	104.816	1.00 82.57	B
ATOM	2489	CG2	ILE	B	99	15.535	64.666	106.177	1.00 82.57	B
ATOM	2490	CG1	ILE	B	99	13.574	64.276	104.658	1.00 82.57	B
ATOM	2491	CD	ILE	B	99	13.049	65.709	104.586	1.00 82.57	B
ATOM	2492	C	ILE	B	99	17.258	65.039	103.958	1.00100.07	B
ATOM	2493	O	ILE	B	99	18.018	64.203	103.473	1.00100.07	B
ATOM	2494	N	LEU	B	100	17.661	66.048	104.711	1.00 94.32	B
ATOM	2495	CA	LEU	B	100	19.046	66.254	105.075	1.00 94.32	B
ATOM	2496	CB	LEU	B	100	19.776	67.066	104.001	1.00 96.49	B
ATOM	2497	CG	LEU	B	100	21.262	67.353	104.253	1.00 96.49	B
ATOM	2498	CD1	LEU	B	100	22.084	66.077	104.097	1.00 96.49	B
ATOM	2499	CD2	LEU	B	100	21.742	68.412	103.281	1.00 96.49	B
ATOM	2500	C	LEU	B	100	18.921	67.072	106.336	1.00 94.32	B
ATOM	2501	O	LEU	B	100	18.637	68.261	106.265	1.00 94.32	B
ATOM	2502	N	ARG	B	101	19.099	66.428	107.484	1.00100.07	B
ATOM	2503	CA	ARG	B	101	18.996	67.124	108.756	1.00100.07	B
ATOM	2504	CB	ARG	B	101	17.862	66.541	109.600	1.00100.07	B
ATOM	2505	CG	ARG	B	101	16.645	66.117	108.811	1.00100.07	B
ATOM	2506	CD	ARG	B	101	15.767	65.207	109.654	1.00100.07	B
ATOM	2507	NE	ARG	B	101	14.936	64.329	108.833	1.00100.07	B
ATOM	2508	CZ	ARG	B	101	14.128	63.392	109.319	1.00100.07	B
ATOM	2509	NH1	ARG	B	101	14.037	63.209	110.630	1.00100.07	B
ATOM	2510	NH2	ARG	B	101	13.411	62.636	108.493	1.00100.07	B
ATOM	2511	C	ARG	B	101	20.302	66.991	109.522	1.00100.07	B
ATOM	2512	O	ARG	B	101	20.391	67.439	110.663	1.00100.07	B
ATOM	2513	N	ALA	B	102	21.311	66.366	108.917	1.00 84.36	B
ATOM	2514	CA	ALA	B	102	22.595	66.238	109.602	1.00 84.36	B
ATOM	2515	CB	ALA	B	102	23.664	65.684	108.668	1.00 31.29	B
ATOM	2516	C	ALA	B	102	22.951	67.654	110.027	1.00 84.36	B
ATOM	2517	O	ALA	B	102	22.259	68.604	109.659	1.00 84.36	B
ATOM	2518	N	ALA	B	103	24.021	67.816	110.790	1.00 98.79	B
ATOM	2519	CA	ALA	B	103	24.378	69.152	111.235	1.00 98.79	B
ATOM	2520	CB	ALA	B	103	23.258	69.718	112.084	1.00 36.97	B
ATOM	2521	C	ALA	B	103	25.663	69.114	112.033	1.00 98.79	B
ATOM	2522	O	ALA	B	103	26.061	70.105	112.646	1.00 98.79	B
ATOM	2523	N	GLY	B	104	26.301	67.952	112.049	1.00 99.66	B
ATOM	2524	CA	GLY	B	104	27.552	67.847	112.760	1.00 99.66	B
ATOM	2525	C	GLY	B	104	28.491	68.825	112.083	1.00 99.66	B
ATOM	2526	O	GLY	B	104	28.585	68.821	110.855	1.00 99.66	B
ATOM	2527	N	PRO	B	105	29.177	69.695	112.840	1.00 99.90	B
ATOM	2528	CD	PRO	B	105	28.942	69.919	114.281	1.00 61.68	B
ATOM	2529	CA	PRO	B	105	30.118	70.692	112.296	1.00 99.90	B
ATOM	2530	CB	PRO	B	105	30.670	71.345	113.565	1.00 61.68	B
ATOM	2531	CG	PRO	B	105	29.481	71.305	114.489	1.00 61.68	B
ATOM	2532	C	PRO	B	105	31.243	70.165	111.356	1.00 99.90	B
ATOM	2533	O	PRO	B	105	32.430	70.265	111.683	1.00 99.90	B
ATOM	2534	N	LYS	B	106	30.863	69.637	110.188	1.00 99.99	B
ATOM	2535	CA	LYS	B	106	31.815	69.084	109.213	1.00 99.99	B
ATOM	2536	CB	LYS	B	106	32.076	67.612	109.536	1.00 99.91	B
ATOM	2537	CG	LYS	B	106	32.565	67.373	110.958	1.00 99.91	B
ATOM	2538	CD	LYS	B	106	32.057	66.047	111.509	1.00 99.91	B
ATOM	2539	CE	LYS	B	106	32.273	65.964	113.010	1.00 99.91	B
ATOM	2540	NZ	LYS	B	106	31.590	64.787	113.598	1.00 99.91	B
ATOM	2541	C	LYS	B	106	31.306	69.223	107.765	1.00 99.99	B
ATOM	2542	O	LYS	B	106	30.276	69.855	107.536	1.00 99.99	B
ATOM	2543	N	GLU	B	107	32.005	68.619	106.797	1.00 61.16	B
ATOM	2544	CA	GLU	B	107	31.626	68.737	105.380	1.00 61.16	B
ATOM	2545	CB	GLU	B	107	32.835	68.423	104.478	1.00100.07	B
ATOM	2546	CG	GLU	B	107	34.002	69.422	104.564	1.00100.07	B
ATOM	2547	CD	GLU	B	107	34.986	69.333	103.382	1.00100.07	B
ATOM	2548	OE1	GLU	B	107	34.609	69.718	102.254	1.00100.07	B
ATOM	2549	OE2	GLU	B	107	36.138	68.883	103.581	1.00100.07	B
ATOM	2550	C	GLU	B	107	30.422	67.956	104.845	1.00 61.16	B
ATOM	2551	O	GLU	B	107	30.571	66.820	104.398	1.00 61.16	B
ATOM	2552	N	VAL	B	108	29.241	68.574	104.863	1.00 55.48	B
ATOM	2553	CA	VAL	B	108	28.019	67.944	104.338	1.00 55.48	B
ATOM	2554	CB	VAL	B	108	26.806	68.899	104.429	1.00 80.68	B
ATOM	2555	CG1	VAL	B	108	25.721	68.457	103.468	1.00 80.68	B
ATOM	2556	CG2	VAL	B	108	26.259	68.913	105.846	1.00 80.68	B
ATOM	2557	C	VAL	B	108	28.256	67.612	102.871	1.00 55.48	B
ATOM	2558	O	VAL	B	108	28.874	68.395	102.167	1.00 55.48	B
ATOM	2559	N	ARG	B	109	27.759	66.472	102.399	1.00 92.03	B
ATOM	2560	CA	ARG	B	109	27.998	66.098	101.007	1.00 92.03	B
ATOM	2561	CB	ARG	B	109	29.477	65.782	100.833	1.00100.07	B
ATOM	2562	CG	ARG	B	109	30.058	64.980	101.985	1.00100.07	B
ATOM	2563	CD	ARG	B	109	31.512	64.666	101.726	1.00100.07	B
ATOM	2564	NE	ARG	B	109	32.377	65.057	102.832	1.00100.07	B
ATOM	2565	CZ	ARG	B	109	33.699	64.922	102.816	1.00100.07	B
ATOM	2566	NH1	ARG	B	109	34.299	64.406	101.753	1.00100.07	B

ATOM	2567	NH2	ARG	B	109	34.422	65.301	103.860	1.00100.07	B
ATOM	2568	C	ARG	B	109	27.177	64.938	100.448	1.00 92.03	B
ATOM	2569	O	ARG	B	109	27.539	63.777	100.629	1.00 92.03	B
ATOM	2570	N	ALA	B	110	26.094	65.269	99.745	1.00100.07	B
ATOM	2571	CA	ALA	B	110	25.198	64.291	99.121	1.00100.07	B
ATOM	2572	CB	ALA	B	110	25.788	63.809	97.803	1.00 80.83	B
ATOM	2573	C	ALA	B	110	24.821	63.091	99.994	1.00100.07	B
ATOM	2574	O	ALA	B	110	23.686	63.005	100.453	1.00100.07	B
ATOM	2575	N	VAL	B	111	25.763	62.166	100.203	1.00100.07	B
ATOM	2576	CA	VAL	B	111	25.545	60.957	101.022	1.00100.07	B
ATOM	2577	CB	VAL	B	111	26.891	60.379	101.574	1.00 71.79	B
ATOM	2578	CG1	VAL	B	111	26.628	59.239	102.561	1.00 71.79	B
ATOM	2579	CG2	VAL	B	111	27.743	59.878	100.433	1.00 71.79	B
ATOM	2580	C	VAL	B	111	24.627	61.166	102.230	1.00100.07	B
ATOM	2581	O	VAL	B	111	23.600	60.501	102.381	1.00100.07	B
ATOM	2582	N	ASP	B	112	25.019	62.091	103.092	1.00 86.11	B
ATOM	2583	CA	ASP	B	112	24.280	62.404	104.304	1.00 86.11	B
ATOM	2584	CB	ASP	B	112	25.011	63.522	105.052	1.00100.07	B
ATOM	2585	CG	ASP	B	112	26.533	63.410	104.938	1.00100.07	B
ATOM	2586	OD1	ASP	B	112	27.230	64.364	105.352	1.00100.07	B
ATOM	2587	OD2	ASP	B	112	27.036	62.376	104.438	1.00100.07	B
ATOM	2588	C	ASP	B	112	22.838	62.835	104.011	1.00 86.11	B
ATOM	2589	O	ASP	B	112	22.119	63.285	104.904	1.00 86.11	B
ATOM	2590	N	PHE	B	113	22.416	62.681	102.761	1.00100.07	B
ATOM	2591	CA	PHE	B	113	21.078	63.086	102.335	1.00100.07	B
ATOM	2592	CB	PHE	B	113	21.080	63.361	100.826	1.00 90.11	B
ATOM	2593	CG	PHE	B	113	20.489	64.683	100.447	1.00 90.11	B
ATOM	2594	CD1	PHE	B	113	20.974	65.859	100.997	1.00 90.11	B
ATOM	2595	CD2	PHE	B	113	19.466	64.758	99.516	1.00 90.11	B
ATOM	2596	CE1	PHE	B	113	20.448	67.093	100.623	1.00 90.11	B
ATOM	2597	CE2	PHE	B	113	18.934	65.989	99.135	1.00 90.11	B
ATOM	2598	CZ	PHE	B	113	19.427	67.156	99.689	1.00 90.11	B
ATOM	2599	C	PHE	B	113	19.949	62.105	102.655	1.00100.07	B
ATOM	2600	O	PHE	B	113	19.202	61.717	101.756	1.00100.07	B
ATOM	2601	N	THR	B	114	19.813	61.711	103.920	1.00100.07	B
ATOM	2602	CA	THR	B	114	18.742	60.789	104.315	1.00100.07	B
ATOM	2603	CB	THR	B	114	17.361	61.486	104.238	1.00 88.84	B
ATOM	2604	OG1	THR	B	114	17.280	62.487	105.258	1.00 88.84	B
ATOM	2605	CG2	THR	B	114	16.229	60.486	104.412	1.00 88.84	B
ATOM	2606	C	THR	B	114	18.704	59.555	103.409	1.00100.07	B
ATOM	2607	O	THR	B	114	18.027	59.555	102.379	1.00100.07	B
ATOM	2608	N	PRO	B	115	19.409	58.477	103.798	1.00 99.99	B
ATOM	2609	CD	PRO	B	115	20.172	58.342	105.052	1.00100.07	B
ATOM	2610	CA	PRO	B	115	19.467	57.231	103.021	1.00 99.99	B
ATOM	2611	CB	PRO	B	115	20.439	56.364	103.825	1.00100.07	B
ATOM	2612	CG	PRO	B	115	20.235	56.840	105.223	1.00100.07	B
ATOM	2613	C	PRO	B	115	18.169	56.495	102.696	1.00 99.99	B
ATOM	2614	O	PRO	B	115	17.844	55.486	103.319	1.00 99.99	B
ATOM	2615	N	SER	B	116	17.452	56.995	101.693	1.00100.07	B
ATOM	2616	CA	SER	B	116	16.196	56.402	101.246	1.00100.07	B
ATOM	2617	CB	SER	B	116	15.185	57.509	100.928	1.00 61.15	B
ATOM	2618	OG	SER	B	116	14.031	56.989	100.286	1.00 61.15	B
ATOM	2619	C	SER	B	116	16.414	55.533	100.001	1.00100.07	B
ATOM	2620	O	SER	B	116	17.012	55.977	99.022	1.00100.07	B
ATOM	2621	N	ALA	B	117	15.940	54.290	100.046	1.00 67.48	B
ATOM	2622	CA	ALA	B	117	16.071	53.394	98.904	1.00 67.48	B
ATOM	2623	CB	ALA	B	117	15.756	51.942	99.309	1.00 19.78	B
ATOM	2624	C	ALA	B	117	15.080	53.894	97.864	1.00 67.48	B
ATOM	2625	O	ALA	B	117	14.692	55.060	97.903	1.00 67.48	B
ATOM	2626	N	ASP	B	118	14.666	53.021	96.948	1.00 81.51	B
ATOM	2627	CA	ASP	B	118	13.727	53.380	95.879	1.00 81.51	B
ATOM	2628	CB	ASP	B	118	12.296	53.561	96.428	1.00 99.81	B
ATOM	2629	CG	ASP	B	118	12.189	54.653	97.481	1.00 99.81	B
ATOM	2630	OD1	ASP	B	118	12.482	54.391	98.670	1.00 99.81	B
ATOM	2631	OD2	ASP	B	118	11.809	55.782	97.110	1.00 99.81	B
ATOM	2632	C	ASP	B	118	14.169	54.632	95.117	1.00 81.51	B
ATOM	2633	O	ASP	B	118	13.482	55.097	94.202	1.00 81.51	B
ATOM	2634	N	VAL	B	119	15.326	55.163	95.506	1.00 99.55	B
ATOM	2635	CA	VAL	B	119	15.917	56.345	94.886	1.00 99.55	B
ATOM	2636	CB	VAL	B	119	15.337	57.668	95.467	1.00 47.33	B
ATOM	2637	CG1	VAL	B	119	15.695	58.823	94.556	1.00 47.33	B
ATOM	2638	CG2	VAL	B	119	13.830	57.580	95.614	1.00 47.33	B
ATOM	2639	C	VAL	B	119	17.419	56.317	95.168	1.00 99.55	B
ATOM	2640	O	VAL	B	119	17.832	56.326	96.327	1.00 99.55	B
ATOM	2641	N	GLU	B	120	18.232	56.268	94.115	1.00100.07	B
ATOM	2642	CA	GLU	B	120	19.686	56.242	94.281	1.00100.07	B
ATOM	2643	CB	GLU	B	120	20.347	55.297	93.259	1.00100.07	B
ATOM	2644	CG	GLU	B	120	20.584	53.863	93.765	1.00100.07	B
ATOM	2645	CD	GLU	B	120	21.693	53.132	92.999	1.00100.07	B
ATOM	2646	OE1	GLU	B	120	22.851	53.609	93.029	1.00100.07	B
ATOM	2647	OE2	GLU	B	120	21.410	52.082	92.373	1.00100.07	B
ATOM	2648	C	GLU	B	120	20.334	57.622	94.176	1.00100.07	B
ATOM	2649	O	GLU	B	120	19.760	58.562	93.617	1.00100.07	B
ATOM	2650	N	ILE	B	121	21.540	57.722	94.730	1.00 86.75	B

ATOM	2651	CA	ILE	B	121	22.320	58.952	94.725	1.00	86.75	B
ATOM	2652	CB	ILE	B	121	22.667	59.395	96.176	1.00	60.89	B
ATOM	2653	CG2	ILE	B	121	23.796	60.419	96.169	1.00	60.89	B
ATOM	2654	CG1	ILE	B	121	21.408	59.954	96.864	1.00	60.89	B
ATOM	2655	CD	ILE	B	121	20.766	61.159	96.164	1.00	60.89	B
ATOM	2656	C	ILE	B	121	23.593	58.669	93.948	1.00	86.75	B
ATOM	2657	O	ILE	B	121	24.635	58.360	94.526	1.00	86.75	B
ATOM	2658	N	MET	B	122	23.483	58.756	92.628	1.00	68.28	B
ATOM	2659	CA	MET	B	122	24.607	58.510	91.736	1.00	68.28	B
ATOM	2660	CB	MET	B	122	24.272	59.014	90.331	1.00	100.07	B
ATOM	2661	CG	MET	B	122	24.003	57.901	89.333	1.00	100.07	B
ATOM	2662	SD	MET	B	122	22.975	56.597	90.026	1.00	100.07	B
ATOM	2663	CE	MET	B	122	24.226	55.365	90.479	1.00	100.07	B
ATOM	2664	C	MET	B	122	25.891	59.178	92.235	1.00	68.28	B
ATOM	2665	O	MET	B	122	26.891	58.508	92.514	1.00	68.28	B
ATOM	2666	N	ASN	B	123	25.857	60.501	92.341	1.00	99.82	B
ATOM	2667	CA	ASN	B	123	27.009	61.257	92.807	1.00	99.82	B
ATOM	2668	CB	ASN	B	123	27.095	62.579	92.045	1.00	54.79	B
ATOM	2669	CG	ASN	B	123	25.800	63.352	92.084	1.00	54.79	B
ATOM	2670	OD1	ASN	B	123	24.718	62.769	92.119	1.00	54.79	B
ATOM	2671	ND2	ASN	B	123	25.900	64.673	92.058	1.00	54.79	B
ATOM	2672	C	ASN	B	123	26.908	61.495	94.314	1.00	99.82	B
ATOM	2673	O	ASN	B	123	26.147	62.348	94.773	1.00	99.82	B
ATOM	2674	N	PRO	B	124	27.699	60.743	95.098	1.00	35.86	B
ATOM	2675	CD	PRO	B	124	28.697	59.817	94.528	1.00	100.07	B
ATOM	2676	CA	PRO	B	124	27.800	60.747	96.562	1.00	35.86	B
ATOM	2677	CB	PRO	B	124	28.588	59.484	96.840	1.00	100.07	B
ATOM	2678	CG	PRO	B	124	29.581	59.509	95.726	1.00	100.07	B
ATOM	2679	C	PRO	B	124	28.453	61.931	97.208	1.00	35.86	B
ATOM	2680	O	PRO	B	124	27.993	62.399	98.241	1.00	35.86	B
ATOM	2681	N	ASP	B	125	29.550	62.386	96.620	1.00	100.07	B
ATOM	2682	CA	ASP	B	125	30.287	63.514	97.160	1.00	100.07	B
ATOM	2683	CB	ASP	B	125	31.677	63.542	96.541	1.00	100.07	B
ATOM	2684	CG	ASP	B	125	32.258	62.150	96.400	1.00	100.07	B
ATOM	2685	OD1	ASP	B	125	31.872	61.267	97.195	1.00	100.07	B
ATOM	2686	OD2	ASP	B	125	33.096	61.932	95.504	1.00	100.07	B
ATOM	2687	C	ASP	B	125	29.525	64.795	96.873	1.00	100.07	B
ATOM	2688	O	ASP	B	125	28.635	65.159	97.639	1.00	100.07	B
ATOM	2689	N	LEU	B	126	29.842	65.465	95.770	1.00	99.82	B
ATOM	2690	CA	LEU	B	126	29.157	66.711	95.441	1.00	99.82	B
ATOM	2691	CB	LEU	B	126	27.736	66.440	94.950	1.00	92.04	B
ATOM	2692	CG	LEU	B	126	26.955	67.718	94.631	1.00	92.04	B
ATOM	2693	CD1	LEU	B	126	27.485	68.342	93.347	1.00	92.04	B
ATOM	2694	CD2	LEU	B	126	25.485	67.397	94.491	1.00	92.04	B
ATOM	2695	C	LEU	B	126	29.098	67.545	96.714	1.00	99.82	B
ATOM	2696	O	LEU	B	126	28.062	67.603	97.378	1.00	99.82	B
ATOM	2697	N	HIS	B	127	30.213	68.187	97.043	1.00	68.55	B
ATOM	2698	CA	HIS	B	127	30.334	68.991	98.251	1.00	68.55	B
ATOM	2699	CB	HIS	B	127	31.320	70.123	98.019	1.00	100.07	B
ATOM	2700	CG	HIS	B	127	31.805	70.734	99.290	1.00	100.07	B
ATOM	2701	CD2	HIS	B	127	33.002	70.653	99.919	1.00	100.07	B
ATOM	2702	ND1	HIS	B	127	30.976	71.443	100.132	1.00	100.07	B
ATOM	2703	CE1	HIS	B	127	31.640	71.767	101.227	1.00	100.07	B
ATOM	2704	NE2	HIS	B	127	32.872	71.300	101.124	1.00	100.07	B
ATOM	2705	C	HIS	B	127	29.088	69.566	98.933	1.00	68.55	B
ATOM	2706	O	HIS	B	127	29.066	69.676	100.151	1.00	68.55	B
ATOM	2707	N	ILE	B	128	28.063	69.933	98.174	1.00	100.07	B
ATOM	2708	CA	ILE	B	128	26.829	70.503	98.737	1.00	100.07	B
ATOM	2709	CB	ILE	B	128	25.911	69.420	99.377	1.00	98.44	B
ATOM	2710	CG2	ILE	B	128	24.688	70.087	100.028	1.00	98.44	B
ATOM	2711	CG1	ILE	B	128	25.426	68.448	98.291	1.00	98.44	B
ATOM	2712	CD	ILE	B	128	24.313	67.505	98.725	1.00	98.44	B
ATOM	2713	C	ILE	B	128	27.018	71.661	99.728	1.00	100.07	B
ATOM	2714	O	ILE	B	128	26.510	72.760	99.488	1.00	100.07	B
ATOM	2715	N	ALA	B	129	27.721	71.432	100.835	1.00	55.59	B
ATOM	2716	CA	ALA	B	129	27.953	72.499	101.801	1.00	55.59	B
ATOM	2717	CB	ALA	B	129	26.619	73.108	102.249	1.00	17.18	B
ATOM	2718	C	ALA	B	129	28.785	72.115	103.016	1.00	55.59	B
ATOM	2719	O	ALA	B	129	28.753	70.975	103.487	1.00	55.59	B
ATOM	2720	N	THR	B	130	29.530	73.101	103.511	1.00	98.41	B
ATOM	2721	CA	THR	B	130	30.400	72.962	104.678	1.00	98.41	B
ATOM	2722	CB	THR	B	130	31.868	73.431	104.348	1.00	63.09	B
ATOM	2723	OG1	THR	B	130	32.586	72.385	103.676	1.00	63.09	B
ATOM	2724	CG2	THR	B	130	32.615	73.823	105.613	1.00	63.09	B
ATOM	2725	C	THR	B	130	29.835	73.820	105.823	1.00	98.41	B
ATOM	2726	O	THR	B	130	29.439	74.973	105.621	1.00	98.41	B
ATOM	2727	N	LEU	B	131	29.780	73.241	107.018	1.00	76.18	B
ATOM	2728	CA	LEU	B	131	29.298	73.950	108.199	1.00	76.18	B
ATOM	2729	CB	LEU	B	131	27.789	73.742	108.390	1.00	99.38	B
ATOM	2730	CG	LEU	B	131	27.202	72.343	108.600	1.00	99.38	B
ATOM	2731	CD1	LEU	B	131	25.750	72.447	109.035	1.00	99.38	B
ATOM	2732	CD2	LEU	B	131	27.307	71.557	107.319	1.00	99.38	B
ATOM	2733	C	LEU	B	131	30.066	73.470	109.438	1.00	76.18	B
ATOM	2734	O	LEU	B	131	30.284	72.269	109.617	1.00	76.18	B

ATOM	2735	N	GLU	B	132	30.475	74.417	110.283	1.00	97.11	B
ATOM	2736	CA	GLU	B	132	31.255	74.123	111.486	1.00	97.11	B
ATOM	2737	CB	GLU	B	132	32.533	74.981	111.482	1.00	100.00	B
ATOM	2738	CG	GLU	B	132	33.555	74.656	112.575	1.00	100.00	B
ATOM	2739	CD	GLU	B	132	34.748	75.610	112.586	1.00	100.00	B
ATOM	2740	OE1	GLU	B	132	35.586	75.552	111.658	1.00	100.00	B
ATOM	2741	OE2	GLU	B	132	34.845	76.423	113.530	1.00	100.00	B
ATOM	2742	C	GLU	B	132	30.470	74.372	112.769	1.00	97.11	B
ATOM	2743	O	GLU	B	132	29.253	74.529	112.721	1.00	97.11	B
ATOM	2744	N	GLU	B	133	31.187	74.411	113.898	1.00	80.07	B
ATOM	2745	CA	GLU	B	133	30.617	74.621	115.235	1.00	80.07	B
ATOM	2746	CB	GLU	B	133	30.981	76.006	115.796	1.00	100.07	B
ATOM	2747	CG	GLU	B	133	32.189	75.989	116.753	1.00	100.07	B
ATOM	2748	CD	GLU	B	133	32.288	77.233	117.655	1.00	100.07	B
ATOM	2749	OE1	GLU	B	133	31.285	77.575	118.330	1.00	100.07	B
ATOM	2750	OE2	GLU	B	133	33.374	77.859	117.701	1.00	100.07	B
ATOM	2751	C	GLU	B	133	29.116	74.438	115.274	1.00	80.07	B
ATOM	2752	O	GLU	B	133	28.625	73.426	115.764	1.00	80.07	B
ATOM	2753	N	GLY	B	134	28.388	75.422	114.760	1.00	100.07	B
ATOM	2754	CA	GLY	B	134	26.943	75.316	114.728	1.00	100.07	B
ATOM	2755	C	GLY	B	134	26.552	74.003	114.073	1.00	100.07	B
ATOM	2756	O	GLY	B	134	27.403	73.183	113.716	1.00	100.07	B
ATOM	2757	N	GLY	B	135	25.256	73.795	113.915	1.00	82.84	B
ATOM	2758	CA	GLY	B	135	24.799	72.571	113.299	1.00	82.84	B
ATOM	2759	C	GLY	B	135	23.382	72.791	112.835	1.00	82.84	B
ATOM	2760	O	GLY	B	135	22.486	72.022	113.165	1.00	82.84	B
ATOM	2761	N	LYS	B	136	23.175	73.874	112.097	1.00	100.07	B
ATOM	2762	CA	LYS	B	136	21.855	74.186	111.564	1.00	100.07	B
ATOM	2763	CB	LYS	B	136	21.897	75.511	110.784	1.00	99.93	B
ATOM	2764	CG	LYS	B	136	21.306	76.691	111.515	1.00	99.93	B
ATOM	2765	CD	LYS	B	136	19.839	76.447	111.797	1.00	99.93	B
ATOM	2766	CE	LYS	B	136	19.267	77.505	112.716	1.00	99.93	B
ATOM	2767	NZ	LYS	B	136	17.844	77.213	113.027	1.00	99.93	B
ATOM	2768	C	LYS	B	136	21.464	73.048	110.621	1.00	100.07	B
ATOM	2769	O	LYS	B	136	21.312	71.895	111.036	1.00	100.07	B
ATOM	2770	N	LEU	B	137	21.293	73.393	109.350	1.00	98.57	B
ATOM	2771	CA	LEU	B	137	20.974	72.424	108.322	1.00	98.57	B
ATOM	2772	CB	LEU	B	137	21.786	71.149	108.557	1.00	100.07	B
ATOM	2773	CG	LEU	B	137	22.513	70.536	107.362	1.00	100.07	B
ATOM	2774	CD1	LEU	B	137	21.497	70.114	106.316	1.00	100.07	B
ATOM	2775	CD2	LEU	B	137	23.509	71.538	106.785	1.00	100.07	B
ATOM	2776	C	LEU	B	137	19.509	72.062	108.158	1.00	98.57	B
ATOM	2777	O	LEU	B	137	18.635	72.925	108.038	1.00	98.57	B
ATOM	2778	N	TYR	B	138	19.270	70.758	108.165	1.00	93.30	B
ATOM	2779	CA	TYR	B	138	17.955	70.177	107.964	1.00	93.30	B
ATOM	2780	CB	TYR	B	138	17.083	70.282	109.216	1.00	100.07	B
ATOM	2781	CG	TYR	B	138	15.841	69.401	109.163	1.00	100.07	B
ATOM	2782	CD1	TYR	B	138	15.311	68.831	110.326	1.00	100.07	B
ATOM	2783	CE1	TYR	B	138	14.121	68.096	110.290	1.00	100.07	B
ATOM	2784	CD2	TYR	B	138	15.152	69.200	107.962	1.00	100.07	B
ATOM	2785	CE2	TYR	B	138	13.975	68.474	107.919	1.00	100.07	B
ATOM	2786	CZ	TYR	B	138	13.456	67.929	109.078	1.00	100.07	B
ATOM	2787	OH	TYR	B	138	12.252	67.257	109.023	1.00	100.07	B
ATOM	2788	C	TYR	B	138	17.275	70.792	106.752	1.00	93.30	B
ATOM	2789	O	TYR	B	138	16.477	71.731	106.850	1.00	93.30	B
ATOM	2790	N	MET	B	139	17.631	70.240	105.599	1.00	55.15	B
ATOM	2791	CA	MET	B	139	17.089	70.663	104.331	1.00	55.15	B
ATOM	2792	CB	MET	B	139	18.193	70.789	103.283	1.00	80.40	B
ATOM	2793	CG	MET	B	139	19.147	71.949	103.447	1.00	80.40	B
ATOM	2794	SD	MET	B	139	19.904	72.301	101.841	1.00	80.40	B
ATOM	2795	CE	MET	B	139	21.380	71.247	101.910	1.00	80.40	B
ATOM	2796	C	MET	B	139	16.108	69.607	103.863	1.00	55.15	B
ATOM	2797	O	MET	B	139	16.340	68.406	104.037	1.00	55.15	B
ATOM	2798	N	GLU	B	140	15.017	70.068	103.265	1.00	77.01	B
ATOM	2799	CA	GLU	B	140	13.997	69.186	102.732	1.00	77.01	B
ATOM	2800	CB	GLU	B	140	12.729	69.274	103.582	1.00	82.89	B
ATOM	2801	CG	GLU	B	140	13.000	68.994	105.054	1.00	82.89	B
ATOM	2802	CD	GLU	B	140	11.743	68.800	105.872	1.00	82.89	B
ATOM	2803	OE1	GLU	B	140	10.858	69.677	105.824	1.00	82.89	B
ATOM	2804	OE2	GLU	B	140	11.645	67.771	106.570	1.00	82.89	B
ATOM	2805	C	GLU	B	140	13.756	69.644	101.305	1.00	77.01	B
ATOM	2806	O	GLU	B	140	12.992	70.574	101.044	1.00	77.01	B
ATOM	2807	N	VAL	B	141	14.446	68.985	100.386	1.00	92.65	B
ATOM	2808	CA	VAL	B	141	14.359	69.322	98.979	1.00	92.65	B
ATOM	2809	CB	VAL	B	141	15.766	69.498	98.379	1.00	100.07	B
ATOM	2810	CG1	VAL	B	141	16.551	68.198	98.494	1.00	100.07	B
ATOM	2811	CG2	VAL	B	141	15.659	69.928	96.933	1.00	100.07	B
ATOM	2812	C	VAL	B	141	13.606	68.280	98.162	1.00	92.65	B
ATOM	2813	O	VAL	B	141	13.829	67.072	98.286	1.00	92.65	B
ATOM	2814	N	ARG	B	142	12.705	68.770	97.323	1.00	100.07	B
ATOM	2815	CA	ARG	B	142	11.932	67.911	96.451	1.00	100.07	B
ATOM	2816	CB	ARG	B	142	10.620	68.591	96.034	1.00	100.07	B
ATOM	2817	CG	ARG	B	142	10.609	70.116	96.158	1.00	100.07	B
ATOM	2818	CD	ARG	B	142	10.544	70.568	97.632	1.00	100.07	B

ATOM	2903	OE2	GLU	B	153	5.500	79.086	83.898	1.00	88.53	B
ATOM	2904	C	GLU	B	153	7.821	78.185	86.324	1.00	100.07	B
ATOM	2905	O	GLU	B	153	6.604	78.349	86.459	1.00	100.07	B
ATOM	2906	N	ARG	B	154	8.468	77.099	86.726	1.00	89.73	B
ATOM	2907	CA	ARG	B	154	7.811	76.002	87.398	1.00	89.73	B
ATOM	2908	CB	ARG	B	154	8.359	74.676	86.871	1.00	100.07	B
ATOM	2909	CG	ARG	B	154	7.792	73.455	87.555	1.00	100.07	B
ATOM	2910	CD	ARG	B	154	7.363	72.400	86.546	1.00	100.07	B
ATOM	2911	NE	ARG	B	154	6.815	71.222	87.213	1.00	100.07	B
ATOM	2912	CZ	ARG	B	154	6.216	70.216	86.587	1.00	100.07	B
ATOM	2913	NH1	ARG	B	154	6.081	70.239	85.266	1.00	100.07	B
ATOM	2914	NH2	ARG	B	154	5.756	69.188	87.286	1.00	100.07	B
ATOM	2915	C	ARG	B	154	8.163	76.184	88.871	1.00	89.73	B
ATOM	2916	O	ARG	B	154	9.236	75.772	89.331	1.00	89.73	B
ATOM	2917	N	HIS	B	155	7.238	76.815	89.588	1.00	81.81	B
ATOM	2918	CA	HIS	B	155	7.382	77.134	91.006	1.00	81.81	B
ATOM	2919	CB	HIS	B	155	6.327	78.176	91.384	1.00	100.07	B
ATOM	2920	CG	HIS	B	155	5.950	79.084	90.252	1.00	100.07	B
ATOM	2921	CD2	HIS	B	155	4.746	79.552	89.844	1.00	100.07	B
ATOM	2922	ND1	HIS	B	155	6.879	79.607	89.378	1.00	100.07	B
ATOM	2923	CE1	HIS	B	155	6.264	80.355	88.479	1.00	100.07	B
ATOM	2924	NE2	HIS	B	155	4.969	80.338	88.739	1.00	100.07	B
ATOM	2925	C	HIS	B	155	7.331	75.958	91.987	1.00	81.81	B
ATOM	2926	O	HIS	B	155	6.701	74.932	91.720	1.00	81.81	B
ATOM	2927	N	GLY	B	156	8.010	76.132	93.123	1.00	78.05	B
ATOM	2928	CA	GLY	B	156	8.060	75.111	94.158	1.00	78.05	B
ATOM	2929	C	GLY	B	156	6.987	75.314	95.213	1.00	78.05	B
ATOM	2930	O	GLY	B	156	7.278	75.574	96.378	1.00	78.05	B
ATOM	2931	N	ILE	B	157	5.733	75.192	94.785	1.00	100.07	B
ATOM	2932	CA	ILE	B	157	4.583	75.351	95.666	1.00	100.07	B
ATOM	2933	CB	ILE	B	157	3.276	74.823	94.995	1.00	83.13	B
ATOM	2934	CG2	ILE	B	157	2.063	75.472	95.639	1.00	83.13	B
ATOM	2935	CG1	ILE	B	157	3.253	75.165	93.503	1.00	83.13	B
ATOM	2936	CD	ILE	B	157	3.110	76.638	93.196	1.00	83.13	B
ATOM	2937	C	ILE	B	157	4.817	74.567	96.962	1.00	100.07	B
ATOM	2938	O	ILE	B	157	4.783	75.139	98.047	1.00	100.07	B
ATOM	2939	N	LYS	B	158	5.062	73.262	96.827	1.00	100.07	B
ATOM	2940	CA	LYS	B	158	5.302	72.353	97.953	1.00	100.07	B
ATOM	2941	CB	LYS	B	158	6.715	71.773	97.885	1.00	99.97	B
ATOM	2942	CG	LYS	B	158	6.765	70.380	97.301	1.00	99.97	B
ATOM	2943	CD	LYS	B	158	7.549	69.436	98.190	1.00	99.97	B
ATOM	2944	CE	LYS	B	158	7.530	68.029	97.618	1.00	99.97	B
ATOM	2945	NZ	LYS	B	158	8.255	67.062	98.482	1.00	99.97	B
ATOM	2946	C	LYS	B	158	5.076	72.916	99.354	1.00	100.07	B
ATOM	2947	O	LYS	B	158	3.934	73.086	99.786	1.00	100.07	B
ATOM	2948	N	ASP	B	159	6.178	73.174	100.060	1.00	83.66	B
ATOM	2949	CA	ASP	B	159	6.164	73.723	101.420	1.00	83.66	B
ATOM	2950	CB	ASP	B	159	7.601	73.816	101.958	1.00	85.27	B
ATOM	2951	CG	ASP	B	159	7.675	74.397	103.367	1.00	85.27	B
ATOM	2952	OD1	ASP	B	159	7.208	73.722	104.310	1.00	85.27	B
ATOM	2953	OD2	ASP	B	159	8.206	75.525	103.529	1.00	85.27	B
ATOM	2954	C	ASP	B	159	5.550	75.122	101.407	1.00	83.66	B
ATOM	2955	O	ASP	B	159	5.956	75.989	102.178	1.00	83.66	B
ATOM	2956	N	ARG	B	160	4.581	75.334	100.520	1.00	80.11	B
ATOM	2957	CA	ARG	B	160	3.902	76.619	100.385	1.00	80.11	B
ATOM	2958	CB	ARG	B	160	3.040	76.901	101.622	1.00	100.07	B
ATOM	2959	CG	ARG	B	160	2.240	75.714	102.162	1.00	100.07	B
ATOM	2960	CD	ARG	B	160	1.668	76.058	103.536	1.00	100.07	B
ATOM	2961	NE	ARG	B	160	1.012	74.935	104.200	1.00	100.07	B
ATOM	2962	CZ	ARG	B	160	0.587	74.967	105.461	1.00	100.07	B
ATOM	2963	NH1	ARG	B	160	0.751	76.063	106.191	1.00	100.07	B
ATOM	2964	NH2	ARG	B	160	-0.001	73.905	105.996	1.00	100.07	B
ATOM	2965	C	ARG	B	160	4.933	77.725	100.241	1.00	80.11	B
ATOM	2966	O	ARG	B	160	5.280	78.126	99.129	1.00	80.11	B
ATOM	2967	N	ILE	B	161	5.403	78.233	101.379	1.00	100.07	B
ATOM	2968	CA	ILE	B	161	6.423	79.263	101.361	1.00	100.07	B
ATOM	2969	CB	ILE	B	161	5.817	80.686	101.585	1.00	93.92	B
ATOM	2970	CG2	ILE	B	161	6.914	81.701	101.919	1.00	93.92	B
ATOM	2971	CG1	ILE	B	161	5.092	81.117	100.298	1.00	93.92	B
ATOM	2972	CD	ILE	B	161	4.737	82.588	100.223	1.00	93.92	B
ATOM	2973	C	ILE	B	161	7.639	78.996	102.240	1.00	100.07	B
ATOM	2974	O	ILE	B	161	7.548	78.840	103.460	1.00	100.07	B
ATOM	2975	N	ASN	B	162	8.767	78.921	101.534	1.00	100.07	B
ATOM	2976	CA	ASN	B	162	10.119	78.653	102.024	1.00	100.07	B
ATOM	2977	CB	ASN	B	162	10.114	77.925	103.377	1.00	87.12	B
ATOM	2978	CG	ASN	B	162	9.859	78.855	104.552	1.00	87.12	B
ATOM	2979	OD1	ASN	B	162	10.393	79.968	104.627	1.00	87.12	B
ATOM	2980	ND2	ASN	B	162	9.049	78.389	105.489	1.00	87.12	B
ATOM	2981	C	ASN	B	162	10.683	77.717	100.949	1.00	100.07	B
ATOM	2982	O	ASN	B	162	11.729	77.077	101.108	1.00	100.07	B
ATOM	2983	N	ALA	B	163	9.955	77.661	99.842	1.00	85.63	B
ATOM	2984	CA	ALA	B	163	10.297	76.816	98.718	1.00	85.63	B
ATOM	2985	CB	ALA	B	163	9.130	76.789	97.745	1.00	66.82	B
ATOM	2986	C	ALA	B	163	11.575	77.194	97.975	1.00	85.63	B

ATOM	3071	C	ARG	B	174	26.097	68.212	77.803	1.00100.07	B
ATOM	3072	O	ARG	B	174	27.015	67.416	77.607	1.00100.07	B
ATOM	3073	N	ARG	B	175	25.796	69.182	76.945	1.00 74.17	B
ATOM	3074	CA	ARG	B	175	26.609	69.394	75.746	1.00 74.17	B
ATOM	3075	CB	ARG	B	175	28.078	69.481	76.168	1.00 38.79	B
ATOM	3076	CG	ARG	B	175	29.043	69.844	75.084	1.00 38.79	B
ATOM	3077	CD	ARG	B	175	30.429	70.017	75.644	1.00 38.79	B
ATOM	3078	NE	ARG	B	175	31.346	70.404	74.587	1.00 38.79	B
ATOM	3079	CZ	ARG	B	175	32.663	70.394	74.709	1.00 38.79	B
ATOM	3080	NH1	ARG	B	175	33.219	70.018	75.851	1.00 38.79	B
ATOM	3081	NH2	ARG	B	175	33.423	70.740	73.682	1.00 38.79	B
ATOM	3082	C	ARG	B	175	26.457	68.356	74.625	1.00 74.17	B
ATOM	3083	O	ARG	B	175	26.337	67.167	74.894	1.00 74.17	B
ATOM	3084	N	VAL	B	176	26.481	68.827	73.374	1.00 73.32	B
ATOM	3085	CA	VAL	B	176	26.354	67.986	72.168	1.00 73.32	B
ATOM	3086	CB	VAL	B	176	24.870	67.629	71.870	1.00 75.21	B
ATOM	3087	CG1	VAL	B	176	24.740	66.997	70.486	1.00 75.21	B
ATOM	3088	CG2	VAL	B	176	24.342	66.675	72.922	1.00 75.21	B
ATOM	3089	C	VAL	B	176	26.924	68.687	70.919	1.00 73.32	B
ATOM	3090	O	VAL	B	176	26.322	69.634	70.403	1.00 73.32	B
ATOM	3091	N	ALA	B	177	28.072	68.213	70.436	1.00100.07	B
ATOM	3092	CA	ALA	B	177	28.715	68.785	69.248	1.00100.07	B
ATOM	3093	CB	ALA	B	177	29.906	69.654	69.661	1.00100.07	B
ATOM	3094	C	ALA	B	177	29.175	67.684	68.281	1.00100.07	B
ATOM	3095	O	ALA	B	177	29.308	66.525	68.679	1.00100.07	B
ATOM	3096	N	PHE	B	178	29.441	68.051	67.025	1.00 43.26	B
ATOM	3097	CA	PHE	B	178	29.835	67.070	66.013	1.00 43.26	B
ATOM	3098	CB	PHE	B	178	28.632	66.240	65.639	1.00 35.05	B
ATOM	3099	CG	PHE	B	178	27.584	67.029	64.936	1.00 35.05	B
ATOM	3100	CD1	PHE	B	178	27.631	67.202	63.564	1.00 35.05	B
ATOM	3101	CD2	PHE	B	178	26.580	67.650	65.653	1.00 35.05	B
ATOM	3102	CE1	PHE	B	178	26.683	67.987	62.915	1.00 35.05	B
ATOM	3103	CE2	PHE	B	178	25.634	68.435	65.014	1.00 35.05	B
ATOM	3104	CZ	PHE	B	178	25.683	68.606	63.641	1.00 35.05	B
ATOM	3105	C	PHE	B	178	30.310	67.741	64.739	1.00 43.26	B
ATOM	3106	O	PHE	B	178	29.889	68.850	64.435	1.00 43.26	B
ATOM	3107	N	GLN	B	179	31.136	67.051	63.959	1.00 38.06	B
ATOM	3108	CA	GLN	B	179	31.611	67.643	62.714	1.00 38.06	B
ATOM	3109	CB	GLN	B	179	32.986	68.313	62.899	1.00100.07	B
ATOM	3110	CG	GLN	B	179	34.162	67.389	63.204	1.00100.07	B
ATOM	3111	CD	GLN	B	179	35.513	68.090	63.038	1.00100.07	B
ATOM	3112	OE1	GLN	B	179	35.650	69.279	63.337	1.00100.07	B
ATOM	3113	NE2	GLN	B	179	36.516	67.350	62.574	1.00100.07	B
ATOM	3114	C	GLN	B	179	31.659	66.744	61.494	1.00 38.06	B
ATOM	3115	O	GLN	B	179	32.255	65.671	61.518	1.00 38.06	B
ATOM	3116	N	VAL	B	180	31.049	67.227	60.416	1.00 32.81	B
ATOM	3117	CA	VAL	B	180	30.958	66.509	59.154	1.00 32.81	B
ATOM	3118	CB	VAL	B	180	29.708	66.997	58.367	1.00 57.30	B
ATOM	3119	CG1	VAL	B	180	29.811	68.502	58.089	1.00 57.30	B
ATOM	3120	CG2	VAL	B	180	29.548	66.195	57.084	1.00 57.30	B
ATOM	3121	C	VAL	B	180	32.217	66.620	58.278	1.00 32.81	B
ATOM	3122	O	VAL	B	180	32.298	67.459	57.374	1.00 32.81	B
ATOM	3123	N	GLU	B	181	33.189	65.751	58.550	1.00 53.70	B
ATOM	3124	CA	GLU	B	181	34.448	65.718	57.814	1.00 53.70	B
ATOM	3125	CB	GLU	B	181	35.491	64.914	58.573	1.00100.07	B
ATOM	3126	CG	GLU	B	181	36.276	65.714	59.569	1.00100.07	B
ATOM	3127	CD	GLU	B	181	37.403	64.901	60.167	1.00100.07	B
ATOM	3128	OE1	GLU	B	181	37.112	63.883	60.837	1.00100.07	B
ATOM	3129	OE2	GLU	B	181	38.580	65.276	59.959	1.00100.07	B
ATOM	3130	C	GLU	B	181	34.358	65.164	56.401	1.00 53.70	B
ATOM	3131	O	GLU	B	181	33.310	65.167	55.771	1.00 53.70	B
ATOM	3132	N	ASP	B	182	35.481	64.673	55.910	1.00 62.55	B
ATOM	3133	CA	ASP	B	182	35.517	64.133	54.576	1.00 62.55	B
ATOM	3134	CB	ASP	B	182	36.163	65.152	53.647	1.00 38.34	B
ATOM	3135	CG	ASP	B	182	35.158	66.105	53.079	1.00 38.34	B
ATOM	3136	OD1	ASP	B	182	33.967	65.850	53.352	1.00 38.34	B
ATOM	3137	OD2	ASP	B	182	35.534	67.074	52.365	1.00 38.34	B
ATOM	3138	C	ASP	B	182	36.195	62.775	54.422	1.00 62.55	B
ATOM	3139	O	ASP	B	182	37.403	62.693	54.183	1.00 62.55	B
ATOM	3140	N	THR	B	183	35.423	61.702	54.575	1.00 47.37	B
ATOM	3141	CA	THR	B	183	35.984	60.369	54.399	1.00 47.37	B
ATOM	3142	CB	THR	B	183	35.006	59.252	54.821	1.00 99.56	B
ATOM	3143	OG1	THR	B	183	34.865	59.248	56.245	1.00 99.56	B
ATOM	3144	CG2	THR	B	183	35.525	57.894	54.375	1.00 99.56	B
ATOM	3145	C	THR	B	183	36.194	60.313	52.888	1.00 47.37	B
ATOM	3146	O	THR	B	183	35.378	60.844	52.113	1.00 47.37	B
ATOM	3147	N	ARG	B	184	37.277	59.671	52.461	1.00 59.20	B
ATOM	3148	CA	ARG	B	184	37.554	59.632	51.041	1.00 59.20	B
ATOM	3149	CB	ARG	B	184	38.788	60.510	50.720	1.00100.07	B
ATOM	3150	CG	ARG	B	184	39.992	60.404	51.680	1.00100.07	B
ATOM	3151	CD	ARG	B	184	41.190	61.266	51.203	1.00100.07	B
ATOM	3152	NE	ARG	B	184	42.352	61.199	52.101	1.00100.07	B
ATOM	3153	CZ	ARG	B	184	43.544	61.740	51.840	1.00100.07	B
ATOM	3154	NH1	ARG	B	184	43.747	62.394	50.701	1.00100.07	B

ATOM	3155	NH2	ARG	B	184	44.534	61.633	52.721	1.00100.07	B
ATOM	3156	C	ARG	B	184	37.633	58.367	50.219	1.00 59.20	B
ATOM	3157	O	ARG	B	184	38.097	58.418	49.084	1.00 59.20	B
ATOM	3158	N	LEU	B	185	37.191	57.236	50.748	1.00100.07	B
ATOM	3159	CA	LEU	B	185	37.232	56.028	49.937	1.00100.07	B
ATOM	3160	CB	LEU	B	185	37.320	54.768	50.811	1.00100.07	B
ATOM	3161	CG	LEU	B	185	37.645	53.426	50.121	1.00100.07	B
ATOM	3162	CD1	LEU	B	185	38.340	53.635	48.765	1.00100.07	B
ATOM	3163	CD2	LEU	B	185	38.521	52.594	51.060	1.00100.07	B
ATOM	3164	C	LEU	B	185	35.957	56.062	49.124	1.00100.07	B
ATOM	3165	O	LEU	B	185	35.588	57.137	48.645	1.00100.07	B
ATOM	3166	N	GLY	B	186	35.260	54.933	48.994	1.00 99.96	B
ATOM	3167	CA	GLY	B	186	34.074	54.934	48.156	1.00 99.96	B
ATOM	3168	C	GLY	B	186	34.675	55.719	47.009	1.00 99.96	B
ATOM	3169	O	GLY	B	186	35.829	55.470	46.633	1.00 99.96	B
ATOM	3170	N	GLN	B	187	33.943	56.673	46.455	1.00 99.57	B
ATOM	3171	CA	GLN	B	187	34.557	57.492	45.428	1.00 99.57	B
ATOM	3172	CB	GLN	B	187	34.412	56.898	44.023	1.00100.07	B
ATOM	3173	CG	GLN	B	187	35.795	56.577	43.378	1.00100.07	B
ATOM	3174	CD	GLN	B	187	36.923	57.556	43.791	1.00100.07	B
ATOM	3175	OE1	GLN	B	187	37.484	57.466	44.891	1.00100.07	B
ATOM	3176	NE2	GLN	B	187	37.245	58.488	42.902	1.00100.07	B
ATOM	3177	C	GLN	B	187	34.179	58.950	45.440	1.00 99.57	B
ATOM	3178	O	GLN	B	187	33.039	59.332	45.721	1.00 99.57	B
ATOM	3179	N	ARG	B	188	35.195	59.743	45.129	1.00 99.66	B
ATOM	3180	CA	ARG	B	188	35.143	61.188	45.132	1.00 99.66	B
ATOM	3181	CB	ARG	B	188	33.701	61.725	45.252	1.00100.07	B
ATOM	3182	CG	ARG	B	188	32.757	61.473	44.071	1.00100.07	B
ATOM	3183	CD	ARG	B	188	31.370	62.082	44.347	1.00100.07	B
ATOM	3184	NE	ARG	B	188	30.927	62.984	43.280	1.00100.07	B
ATOM	3185	CZ	ARG	B	188	29.800	63.692	43.314	1.00100.07	B
ATOM	3186	NH1	ARG	B	188	28.997	63.605	44.365	1.00100.07	B
ATOM	3187	NH2	ARG	B	188	29.470	64.477	42.293	1.00100.07	B
ATOM	3188	C	ARG	B	188	35.886	61.498	46.422	1.00 99.66	B
ATOM	3189	O	ARG	B	188	36.796	60.768	46.823	1.00 99.66	B
ATOM	3190	N	THR	B	189	35.474	62.573	47.076	1.00 98.98	B
ATOM	3191	CA	THR	B	189	36.058	62.983	48.333	1.00 98.98	B
ATOM	3192	CB	THR	B	189	37.406	63.686	48.114	1.00 51.63	B
ATOM	3193	OG1	THR	B	189	37.983	63.237	46.881	1.00 51.63	B
ATOM	3194	CG2	THR	B	189	38.369	63.355	49.257	1.00 51.63	B
ATOM	3195	C	THR	B	189	35.031	63.960	48.857	1.00 98.98	B
ATOM	3196	O	THR	B	189	35.329	64.845	49.653	1.00 98.98	B
ATOM	3197	N	ASP	B	190	33.809	63.789	48.366	1.00 43.16	B
ATOM	3198	CA	ASP	B	190	32.688	64.614	48.765	1.00 43.16	B
ATOM	3199	CB	ASP	B	190	31.751	64.831	47.586	1.00 79.99	B
ATOM	3200	CG	ASP	B	190	32.479	65.324	46.361	1.00 79.99	B
ATOM	3201	OD1	ASP	B	190	33.289	66.263	46.502	1.00 79.99	B
ATOM	3202	OD2	ASP	B	190	32.240	64.783	45.257	1.00 79.99	B
ATOM	3203	C	ASP	B	190	31.948	63.919	49.901	1.00 43.16	B
ATOM	3204	O	ASP	B	190	31.161	64.545	50.621	1.00 43.16	B
ATOM	3205	N	LEU	B	191	32.240	62.631	50.072	1.00 54.68	B
ATOM	3206	CA	LEU	B	191	31.609	61.788	51.083	1.00 54.68	B
ATOM	3207	CB	LEU	B	191	32.085	60.363	50.871	1.00 32.62	B
ATOM	3208	CG	LEU	B	191	31.728	59.969	49.439	1.00 32.62	B
ATOM	3209	CD1	LEU	B	191	32.125	58.538	49.153	1.00 32.62	B
ATOM	3210	CD2	LEU	B	191	30.240	60.144	49.247	1.00 32.62	B
ATOM	3211	C	LEU	B	191	31.773	62.188	52.548	1.00 54.68	B
ATOM	3212	O	LEU	B	191	32.863	62.083	53.112	1.00 54.68	B
ATOM	3213	N	ASP	B	192	30.666	62.622	53.154	1.00 56.67	B
ATOM	3214	CA	ASP	B	192	30.616	63.063	54.552	1.00 56.67	B
ATOM	3215	CB	ASP	B	192	29.190	63.505	54.903	1.00 66.03	B
ATOM	3216	CG	ASP	B	192	28.745	64.727	54.116	1.00 66.03	B
ATOM	3217	OD1	ASP	B	192	29.508	65.167	53.227	1.00 66.03	B
ATOM	3218	OD2	ASP	B	192	27.635	65.243	54.383	1.00 66.03	B
ATOM	3219	C	ASP	B	192	31.080	62.007	55.554	1.00 56.67	B
ATOM	3220	O	ASP	B	192	31.352	60.865	55.182	1.00 56.67	B
ATOM	3221	N	LYS	B	193	31.160	62.405	56.825	1.00 24.44	B
ATOM	3222	CA	LYS	B	193	31.598	61.524	57.902	1.00 24.44	B
ATOM	3223	CB	LYS	B	193	33.104	61.303	57.834	1.00 62.39	B
ATOM	3224	CG	LYS	B	193	33.637	60.548	59.031	1.00 62.39	B
ATOM	3225	CD	LYS	B	193	35.078	60.165	58.836	1.00 62.39	B
ATOM	3226	CE	LYS	B	193	35.466	59.022	59.747	1.00 62.39	B
ATOM	3227	NZ	LYS	B	193	36.737	58.393	59.292	1.00 62.39	B
ATOM	3228	C	LYS	B	193	31.254	62.168	59.239	1.00 24.44	B
ATOM	3229	O	LYS	B	193	32.036	62.955	59.762	1.00 24.44	B
ATOM	3230	N	LEU	B	194	30.109	61.807	59.811	1.00 74.01	B
ATOM	3231	CA	LEU	B	194	29.660	62.381	61.082	1.00 74.01	B
ATOM	3232	CB	LEU	B	194	28.415	61.656	61.592	1.00 60.97	B
ATOM	3233	CG	LEU	B	194	27.093	62.293	61.178	1.00 60.97	B
ATOM	3234	CD1	LEU	B	194	26.151	62.229	62.343	1.00 60.97	B
ATOM	3235	CD2	LEU	B	194	27.296	63.734	60.782	1.00 60.97	B
ATOM	3236	C	LEU	B	194	30.590	62.585	62.279	1.00 74.01	B
ATOM	3237	O	LEU	B	194	31.403	63.505	62.292	1.00 74.01	B
ATOM	3238	N	THR	B	195	30.418	61.741	63.294	1.00 32.39	B

ATOM	3239	CA	THR	B	195	31.168	61.788	64.560	1.00	32.39	B
ATOM	3240	CB	THR	B	195	32.573	62.420	64.443	1.00	35.71	B
ATOM	3241	OG1	THR	B	195	33.113	62.192	63.140	1.00	35.71	B
ATOM	3242	CG2	THR	B	195	33.501	61.817	65.470	1.00	35.71	B
ATOM	3243	C	THR	B	195	30.405	62.682	65.533	1.00	32.39	B
ATOM	3244	O	THR	B	195	30.448	63.902	65.412	1.00	32.39	B
ATOM	3245	N	LEU	B	196	29.686	62.078	66.474	1.00	77.38	B
ATOM	3246	CA	LEU	B	196	28.937	62.821	67.490	1.00	77.38	B
ATOM	3247	CB	LEU	B	196	27.503	62.305	67.603	1.00	58.80	B
ATOM	3248	CG	LEU	B	196	26.441	62.921	66.705	1.00	58.80	B
ATOM	3249	CD1	LEU	B	196	27.034	63.307	65.374	1.00	58.80	B
ATOM	3250	CD2	LEU	B	196	25.319	61.923	66.531	1.00	58.80	B
ATOM	3251	C	LEU	B	196	29.662	62.521	68.793	1.00	77.38	B
ATOM	3252	O	LEU	B	196	30.028	61.371	69.054	1.00	77.38	B
ATOM	3253	N	ARG	B	197	29.875	63.536	69.619	1.00	31.83	B
ATOM	3254	CA	ARG	B	197	30.563	63.283	70.869	1.00	31.83	B
ATOM	3255	CB	ARG	B	197	31.742	64.232	70.995	1.00	99.56	B
ATOM	3256	CG	ARG	B	197	31.445	65.622	70.537	1.00	99.56	B
ATOM	3257	CD	ARG	B	197	32.713	66.429	70.491	1.00	99.56	B
ATOM	3258	NE	ARG	B	197	32.691	67.361	69.373	1.00	99.56	B
ATOM	3259	CZ	ARG	B	197	33.640	68.254	69.124	1.00	99.56	B
ATOM	3260	NH1	ARG	B	197	34.697	68.345	69.923	1.00	99.56	B
ATOM	3261	NH2	ARG	B	197	33.530	69.051	68.068	1.00	99.56	B
ATOM	3262	C	ARG	B	197	29.697	63.346	72.122	1.00	31.83	B
ATOM	3263	O	ARG	B	197	30.217	63.306	73.230	1.00	31.83	B
ATOM	3264	N	ILE	B	198	28.383	63.425	71.927	1.00	14.50	B
ATOM	3265	CA	ILE	B	198	27.396	63.474	73.005	1.00	14.50	B
ATOM	3266	CB	ILE	B	198	26.389	62.311	72.908	1.00	39.02	B
ATOM	3267	CG2	ILE	B	198	25.250	62.539	73.860	1.00	39.02	B
ATOM	3268	CG1	ILE	B	198	25.835	62.204	71.481	1.00	39.02	B
ATOM	3269	CD	ILE	B	198	25.264	63.497	70.916	1.00	39.02	B
ATOM	3270	C	ILE	B	198	28.108	63.381	74.319	1.00	14.50	B
ATOM	3271	O	ILE	B	198	28.323	62.289	74.840	1.00	14.50	B
ATOM	3272	N	TRP	B	199	28.482	64.556	74.826	1.00	99.86	B
ATOM	3273	CA	TRP	B	199	29.225	64.710	76.068	1.00	99.86	B
ATOM	3274	CB	TRP	B	199	29.499	66.179	76.356	1.00	59.10	B
ATOM	3275	CG	TRP	B	199	30.839	66.521	75.920	1.00	59.10	B
ATOM	3276	CD2	TRP	B	199	32.049	66.258	76.631	1.00	59.10	B
ATOM	3277	CE2	TRP	B	199	33.112	66.662	75.802	1.00	59.10	B
ATOM	3278	CE3	TRP	B	199	32.340	65.720	77.894	1.00	59.10	B
ATOM	3279	CD1	TRP	B	199	31.195	67.054	74.727	1.00	59.10	B
ATOM	3280	NE1	TRP	B	199	32.559	67.144	74.643	1.00	59.10	B
ATOM	3281	CZ2	TRP	B	199	34.462	66.545	76.191	1.00	59.10	B
ATOM	3282	CZ3	TRP	B	199	33.686	65.602	78.285	1.00	59.10	B
ATOM	3283	CH2	TRP	B	199	34.726	66.017	77.433	1.00	59.10	B
ATOM	3284	C	TRP	B	199	28.670	64.067	77.315	1.00	99.86	B
ATOM	3285	O	TRP	B	199	27.878	63.126	77.256	1.00	99.86	B
ATOM	3286	N	THR	B	200	29.090	64.604	78.452	1.00	95.79	B
ATOM	3287	CA	THR	B	200	28.703	64.038	79.725	1.00	95.79	B
ATOM	3288	CB	THR	B	200	29.306	64.869	80.925	1.00	100.07	B
ATOM	3289	OG1	THR	B	200	29.330	64.055	82.108	1.00	100.07	B
ATOM	3290	CG2	THR	B	200	28.510	66.128	81.196	1.00	100.07	B
ATOM	3291	C	THR	B	200	27.229	63.693	79.950	1.00	95.79	B
ATOM	3292	O	THR	B	200	26.359	63.933	79.103	1.00	95.79	B
ATOM	3293	N	ASP	B	201	26.982	63.098	81.109	1.00	100.07	B
ATOM	3294	CA	ASP	B	201	25.671	62.624	81.497	1.00	100.07	B
ATOM	3295	CB	ASP	B	201	25.846	61.298	82.237	1.00	90.30	B
ATOM	3296	CG	ASP	B	201	26.462	61.478	83.629	1.00	90.30	B
ATOM	3297	OD1	ASP	B	201	27.544	62.097	83.736	1.00	90.30	B
ATOM	3298	OD2	ASP	B	201	25.855	61.005	84.615	1.00	90.30	B
ATOM	3299	C	ASP	B	201	24.792	63.515	82.353	1.00	100.07	B
ATOM	3300	O	ASP	B	201	24.389	64.605	81.957	1.00	100.07	B
ATOM	3301	N	GLY	B	202	24.502	62.995	83.541	1.00	99.57	B
ATOM	3302	CA	GLY	B	202	23.648	63.640	84.509	1.00	99.57	B
ATOM	3303	C	GLY	B	202	22.712	62.514	84.877	1.00	99.57	B
ATOM	3304	O	GLY	B	202	21.551	62.746	85.215	1.00	99.57	B
ATOM	3305	N	SER	B	203	23.243	61.289	84.764	1.00	92.91	B
ATOM	3306	CA	SER	B	203	22.544	60.029	85.061	1.00	92.91	B
ATOM	3307	CB	SER	B	203	21.470	60.260	86.135	1.00	100.07	B
ATOM	3308	OG	SER	B	203	20.227	59.678	85.778	1.00	100.07	B
ATOM	3309	C	SER	B	203	21.908	59.353	83.835	1.00	92.91	B
ATOM	3310	O	SER	B	203	20.772	59.647	83.478	1.00	92.91	B
ATOM	3311	N	VAL	B	204	22.668	58.444	83.226	1.00	71.61	B
ATOM	3312	CA	VAL	B	204	22.332	57.634	82.035	1.00	71.61	B
ATOM	3313	CB	VAL	B	204	21.272	58.246	81.056	1.00	44.92	B
ATOM	3314	CG1	VAL	B	204	19.887	58.225	81.655	1.00	44.92	B
ATOM	3315	CG2	VAL	B	204	21.671	59.618	80.656	1.00	44.92	B
ATOM	3316	C	VAL	B	204	23.623	57.517	81.237	1.00	71.61	B
ATOM	3317	O	VAL	B	204	24.717	57.580	81.799	1.00	71.61	B
ATOM	3318	N	THR	B	205	23.507	57.348	79.929	1.00	50.50	B
ATOM	3319	CA	THR	B	205	24.696	57.264	79.107	1.00	50.50	B
ATOM	3320	CB	THR	B	205	25.324	55.853	79.150	1.00	100.07	B
ATOM	3321	OG1	THR	B	205	26.748	55.974	79.228	1.00	100.07	B
ATOM	3322	CG2	THR	B	205	24.978	55.064	77.894	1.00	100.07	B

ATOM	3323	C	THR	B	205	24.348	57.635	77.673	1.00	50.50	B
ATOM	3324	O	THR	B	205	23.270	57.293	77.172	1.00	50.50	B
ATOM	3325	N	PRO	B	206	25.261	58.352	76.998	1.00	43.13	B
ATOM	3326	CD	PRO	B	206	26.627	58.645	77.464	1.00	100.07	B
ATOM	3327	CA	PRO	B	206	25.077	58.786	75.611	1.00	43.13	B
ATOM	3328	CB	PRO	B	206	26.482	59.241	75.199	1.00	100.07	B
ATOM	3329	CG	PRO	B	206	27.402	58.539	76.194	1.00	100.07	B
ATOM	3330	C	PRO	B	206	24.523	57.671	74.734	1.00	43.13	B
ATOM	3331	O	PRO	B	206	23.477	57.834	74.094	1.00	43.13	B
ATOM	3332	N	LEU	B	207	25.228	56.539	74.719	1.00	99.23	B
ATOM	3333	CA	LEU	B	207	24.818	55.379	73.933	1.00	99.23	B
ATOM	3334	CB	LEU	B	207	25.383	54.090	74.553	1.00	83.32	B
ATOM	3335	CG	LEU	B	207	26.693	54.157	75.352	1.00	83.32	B
ATOM	3336	CD1	LEU	B	207	27.121	52.755	75.746	1.00	83.32	B
ATOM	3337	CD2	LEU	B	207	27.776	54.817	74.534	1.00	83.32	B
ATOM	3338	C	LEU	B	207	23.304	55.371	74.014	1.00	99.23	B
ATOM	3339	O	LEU	B	207	22.608	55.505	73.006	1.00	99.23	B
ATOM	3340	N	GLU	B	208	22.812	55.256	75.241	1.00	58.63	B
ATOM	3341	CA	GLU	B	208	21.389	55.238	75.502	1.00	58.63	B
ATOM	3342	CB	GLU	B	208	21.177	55.007	76.990	1.00	99.97	B
ATOM	3343	CG	GLU	B	208	21.996	53.829	77.496	1.00	99.97	B
ATOM	3344	CD	GLU	B	208	22.353	53.957	78.960	1.00	99.97	B
ATOM	3345	OE1	GLU	B	208	22.448	55.110	79.431	1.00	99.97	B
ATOM	3346	OE2	GLU	B	208	22.559	52.917	79.629	1.00	99.97	B
ATOM	3347	C	GLU	B	208	20.771	56.558	75.041	1.00	58.63	B
ATOM	3348	O	GLU	B	208	19.789	56.570	74.299	1.00	58.63	B
ATOM	3349	N	ALA	B	209	21.368	57.668	75.462	1.00	50.18	B
ATOM	3350	CA	ALA	B	209	20.877	58.991	75.092	1.00	50.18	B
ATOM	3351	CB	ALA	B	209	21.902	60.045	75.465	1.00	17.32	B
ATOM	3352	C	ALA	B	209	20.584	59.066	73.606	1.00	50.18	B
ATOM	3353	O	ALA	B	209	19.504	59.505	73.204	1.00	50.18	B
ATOM	3354	N	LEU	B	210	21.551	58.620	72.804	1.00	86.85	B
ATOM	3355	CA	LEU	B	210	21.452	58.639	71.345	1.00	86.85	B
ATOM	3356	CB	LEU	B	210	22.800	58.266	70.722	1.00	41.12	B
ATOM	3357	CG	LEU	B	210	22.734	57.913	69.232	1.00	41.12	B
ATOM	3358	CD1	LEU	B	210	22.029	59.007	68.449	1.00	41.12	B
ATOM	3359	CD2	LEU	B	210	24.132	57.687	68.708	1.00	41.12	B
ATOM	3360	C	LEU	B	210	20.344	57.772	70.738	1.00	86.85	B
ATOM	3361	O	LEU	B	210	19.483	58.278	70.011	1.00	86.85	B
ATOM	3362	N	ASN	B	211	20.375	56.468	71.002	1.00	97.57	B
ATOM	3363	CA	ASN	B	211	19.339	55.597	70.464	1.00	97.57	B
ATOM	3364	CB	ASN	B	211	19.578	54.144	70.872	1.00	43.62	B
ATOM	3365	CG	ASN	B	211	20.712	53.501	70.088	1.00	43.62	B
ATOM	3366	OD1	ASN	B	211	20.635	53.344	68.861	1.00	43.62	B
ATOM	3367	ND2	ASN	B	211	21.776	53.129	70.790	1.00	43.62	B
ATOM	3368	C	ASN	B	211	18.025	56.104	71.017	1.00	97.57	B
ATOM	3369	O	ASN	B	211	16.987	56.053	70.351	1.00	97.57	B
ATOM	3370	N	GLN	B	212	18.087	56.615	72.242	1.00	83.52	B
ATOM	3371	CA	GLN	B	212	16.916	57.170	72.883	1.00	83.52	B
ATOM	3372	CB	GLN	B	212	17.201	57.487	74.346	1.00	62.48	B
ATOM	3373	CG	GLN	B	212	17.271	56.262	75.233	1.00	62.48	B
ATOM	3374	CD	GLN	B	212	17.292	56.619	76.703	1.00	62.48	B
ATOM	3375	OE1	GLN	B	212	16.398	57.310	77.202	1.00	62.48	B
ATOM	3376	NE2	GLN	B	212	18.308	56.147	77.408	1.00	62.48	B
ATOM	3377	C	GLN	B	212	16.536	58.437	72.151	1.00	83.52	B
ATOM	3378	O	GLN	B	212	15.401	58.885	72.238	1.00	83.52	B
ATOM	3379	N	ALA	B	213	17.494	59.004	71.422	1.00	61.59	B
ATOM	3380	CA	ALA	B	213	17.270	60.236	70.675	1.00	61.59	B
ATOM	3381	CB	ALA	B	213	18.589	60.956	70.460	1.00	62.72	B
ATOM	3382	C	ALA	B	213	16.611	59.946	69.342	1.00	61.59	B
ATOM	3383	O	ALA	B	213	15.651	60.607	68.953	1.00	61.59	B
ATOM	3384	N	VAL	B	214	17.145	58.961	68.636	1.00	47.91	B
ATOM	3385	CA	VAL	B	214	16.601	58.567	67.345	1.00	47.91	B
ATOM	3386	CB	VAL	B	214	17.178	57.228	66.930	1.00	47.00	B
ATOM	3387	CG1	VAL	B	214	16.548	56.774	65.648	1.00	47.00	B
ATOM	3388	CG2	VAL	B	214	18.677	57.347	66.798	1.00	47.00	B
ATOM	3389	C	VAL	B	214	15.093	58.413	67.489	1.00	47.91	B
ATOM	3390	O	VAL	B	214	14.301	59.113	66.855	1.00	47.91	B
ATOM	3391	N	ALA	B	215	14.726	57.481	68.356	1.00	44.43	B
ATOM	3392	CA	ALA	B	215	13.343	57.157	68.658	1.00	44.43	B
ATOM	3393	CB	ALA	B	215	13.250	56.718	70.106	1.00	100.07	B
ATOM	3394	C	ALA	B	215	12.304	58.247	68.390	1.00	44.43	B
ATOM	3395	O	ALA	B	215	11.409	58.072	67.563	1.00	44.43	B
ATOM	3396	N	ILE	B	216	12.424	59.358	69.109	1.00	44.46	B
ATOM	3397	CA	ILE	B	216	11.488	60.479	68.996	1.00	44.46	B
ATOM	3398	CB	ILE	B	216	11.940	61.708	69.839	1.00	28.99	B
ATOM	3399	CG2	ILE	B	216	10.747	62.624	70.115	1.00	28.99	B
ATOM	3400	CG1	ILE	B	216	12.558	61.260	71.166	1.00	28.99	B
ATOM	3401	CD	ILE	B	216	13.887	60.591	71.008	1.00	28.99	B
ATOM	3402	C	ILE	B	216	11.351	60.973	67.566	1.00	44.46	B
ATOM	3403	O	ILE	B	216	10.248	61.063	67.021	1.00	44.46	B
ATOM	3404	N	LEU	B	217	12.486	61.335	66.980	1.00	80.63	B
ATOM	3405	CA	LEU	B	217	12.501	61.818	65.616	1.00	80.63	B
ATOM	3406	CB	LEU	B	217	13.935	62.049	65.149	1.00	65.28	B

ATOM	3407	CG	LEU	B	217	14.051	62.148	63.627	1.00	65.28	B
ATOM	3408	CD1	LEU	B	217	13.182	63.301	63.122	1.00	65.28	B
ATOM	3409	CD2	LEU	B	217	15.513	62.319	63.227	1.00	65.28	B
ATOM	3410	C	LEU	B	217	11.832	60.761	64.755	1.00	80.63	B
ATOM	3411	O	LEU	B	217	10.972	61.058	63.922	1.00	80.63	B
ATOM	3412	N	LYS	B	218	12.241	59.519	64.981	1.00	92.37	B
ATOM	3413	CA	LYS	B	218	11.706	58.373	64.269	1.00	92.37	B
ATOM	3414	CB	LYS	B	218	12.358	57.110	64.829	1.00	100.07	B
ATOM	3415	CG	LYS	B	218	12.257	55.867	63.972	1.00	100.07	B
ATOM	3416	CD	LYS	B	218	13.025	54.735	64.654	1.00	100.07	B
ATOM	3417	CE	LYS	B	218	12.794	53.374	64.007	1.00	100.07	B
ATOM	3418	NZ	LYS	B	218	13.420	52.274	64.806	1.00	100.07	B
ATOM	3419	C	LYS	B	218	10.199	58.376	64.522	1.00	92.37	B
ATOM	3420	O	LYS	B	218	9.414	58.637	63.612	1.00	92.37	B
ATOM	3421	N	GLU	B	219	9.801	58.133	65.769	1.00	79.01	B
ATOM	3422	CA	GLU	B	219	8.386	58.099	66.113	1.00	79.01	B
ATOM	3423	CB	GLU	B	219	8.196	57.858	67.612	1.00	100.07	B
ATOM	3424	CG	GLU	B	219	8.450	59.058	68.500	1.00	100.07	B
ATOM	3425	CD	GLU	B	219	8.105	58.780	69.964	1.00	100.07	B
ATOM	3426	OE1	GLU	B	219	8.764	57.912	70.583	1.00	100.07	B
ATOM	3427	OE2	GLU	B	219	7.172	59.423	70.497	1.00	100.07	B
ATOM	3428	C	GLU	B	219	7.631	59.345	65.689	1.00	79.01	B
ATOM	3429	O	GLU	B	219	6.407	59.329	65.600	1.00	79.01	B
ATOM	3430	N	HIS	B	220	8.357	60.424	65.426	1.00	99.82	B
ATOM	3431	CA	HIS	B	220	7.730	61.662	64.990	1.00	99.82	B
ATOM	3432	CB	HIS	B	220	8.626	62.848	65.334	1.00	99.10	B
ATOM	3433	CG	HIS	B	220	8.309	63.475	66.654	1.00	99.10	B
ATOM	3434	CD2	HIS	B	220	8.813	63.255	67.890	1.00	99.10	B
ATOM	3435	ND1	HIS	B	220	7.335	64.441	66.806	1.00	99.10	B
ATOM	3436	CE1	HIS	B	220	7.256	64.789	68.079	1.00	99.10	B
ATOM	3437	NE2	HIS	B	220	8.143	64.083	68.757	1.00	99.10	B
ATOM	3438	C	HIS	B	220	7.464	61.605	63.493	1.00	99.82	B
ATOM	3439	O	HIS	B	220	6.385	61.984	63.032	1.00	99.82	B
ATOM	3440	N	LEU	B	221	8.441	61.120	62.733	1.00	59.35	B
ATOM	3441	CA	LEU	B	221	8.285	61.021	61.287	1.00	59.35	B
ATOM	3442	CB	LEU	B	221	9.488	60.320	60.672	1.00	41.22	B
ATOM	3443	CG	LEU	B	221	10.769	61.140	60.790	1.00	41.22	B
ATOM	3444	CD1	LEU	B	221	11.934	60.247	61.184	1.00	41.22	B
ATOM	3445	CD2	LEU	B	221	11.006	61.856	59.475	1.00	41.22	B
ATOM	3446	C	LEU	B	221	7.014	60.239	60.998	1.00	59.35	B
ATOM	3447	O	LEU	B	221	6.330	60.510	60.016	1.00	59.35	B
ATOM	3448	N	ASN	B	222	6.704	59.278	61.868	1.00	72.61	B
ATOM	3449	CA	ASN	B	222	5.506	58.457	61.727	1.00	72.61	B
ATOM	3450	CB	ASN	B	222	5.130	57.790	63.046	1.00	98.73	B
ATOM	3451	CG	ASN	B	222	6.276	57.075	63.686	1.00	98.73	B
ATOM	3452	OD1	ASN	B	222	6.132	56.492	64.762	1.00	98.73	B
ATOM	3453	ND2	ASN	B	222	7.428	57.106	63.035	1.00	98.73	B
ATOM	3454	C	ASN	B	222	4.355	59.375	61.380	1.00	72.61	B
ATOM	3455	O	ASN	B	222	3.698	59.218	60.353	1.00	72.61	B
ATOM	3456	N	TYR	B	223	4.113	60.326	62.277	1.00	53.49	B
ATOM	3457	CA	TYR	B	223	3.044	61.303	62.125	1.00	53.49	B
ATOM	3458	CB	TYR	B	223	3.401	62.584	62.879	1.00	66.70	B
ATOM	3459	CG	TYR	B	223	3.589	62.418	64.376	1.00	66.70	B
ATOM	3460	CD1	TYR	B	223	4.271	63.383	65.115	1.00	66.70	B
ATOM	3461	CE1	TYR	B	223	4.464	63.244	66.485	1.00	66.70	B
ATOM	3462	CD2	TYR	B	223	3.093	61.301	65.055	1.00	66.70	B
ATOM	3463	CE2	TYR	B	223	3.281	61.153	66.432	1.00	66.70	B
ATOM	3464	CZ	TYR	B	223	3.974	62.129	67.137	1.00	66.70	B
ATOM	3465	OH	TYR	B	223	4.217	61.983	68.486	1.00	66.70	B
ATOM	3466	C	TYR	B	223	2.753	61.636	60.667	1.00	53.49	B
ATOM	3467	O	TYR	B	223	1.606	61.907	60.308	1.00	53.49	B
ATOM	3468	N	PHE	B	224	3.796	61.634	59.837	1.00	66.70	B
ATOM	3469	CA	PHE	B	224	3.633	61.904	58.410	1.00	66.70	B
ATOM	3470	CB	PHE	B	224	4.970	62.275	57.738	1.00	53.82	B
ATOM	3471	CG	PHE	B	224	5.693	63.448	58.376	1.00	53.82	B
ATOM	3472	CD1	PHE	B	224	6.431	63.281	59.556	1.00	53.82	B
ATOM	3473	CD2	PHE	B	224	5.655	64.714	57.787	1.00	53.82	B
ATOM	3474	CE1	PHE	B	224	7.113	64.352	60.130	1.00	53.82	B
ATOM	3475	CE2	PHE	B	224	6.337	65.791	58.362	1.00	53.82	B
ATOM	3476	CZ	PHE	B	224	7.066	65.609	59.532	1.00	53.82	B
ATOM	3477	C	PHE	B	224	3.099	60.619	57.796	1.00	66.70	B
ATOM	3478	O	PHE	B	224	3.780	59.953	57.006	1.00	66.70	B
ATOM	3479	N	ALA	B	225	1.881	60.271	58.194	1.00	79.03	B
ATOM	3480	CA	ALA	B	225	1.198	59.079	57.716	1.00	79.03	B
ATOM	3481	CB	ALA	B	225	1.362	57.950	58.720	1.00	49.79	B
ATOM	3482	C	ALA	B	225	-0.268	59.455	57.571	1.00	79.03	B
ATOM	3483	O	ALA	B	225	-0.787	60.238	58.364	1.00	79.03	B
ATOM	3484	N	ASN	B	226	-0.930	58.904	56.559	1.00	83.64	B
ATOM	3485	CA	ASN	B	226	-2.343	59.185	56.311	1.00	83.64	B
ATOM	3486	CB	ASN	B	226	-3.229	58.265	57.158	1.00	100.07	B
ATOM	3487	CG	ASN	B	226	-2.620	57.949	58.496	1.00	100.07	B
ATOM	3488	OD1	ASN	B	226	-1.858	56.994	58.624	1.00	100.07	B
ATOM	3489	ND2	ASN	B	226	-2.934	58.761	59.504	1.00	100.07	B
ATOM	3490	C	ASN	B	226	-2.738	60.638	56.556	1.00	83.64	B

ATOM	3491	O	ASN	B	226	-2.819	61.102	57.696	1.00	83.64	B
ATOM	3492	N	PRO	B	227	-2.992	61.373	55.469	1.00	99.93	B
ATOM	3493	CD	PRO	B	227	-2.459	61.008	54.141	1.00	100.07	B
ATOM	3494	CA	PRO	B	227	-3.383	62.783	55.503	1.00	99.93	B
ATOM	3495	CB	PRO	B	227	-2.469	63.390	54.457	1.00	100.07	B
ATOM	3496	CG	PRO	B	227	-2.510	62.324	53.381	1.00	100.07	B
ATOM	3497	C	PRO	B	227	-4.867	63.041	55.193	1.00	99.93	B
ATOM	3498	O	PRO	B	227	-5.677	62.114	55.106	1.00	99.93	B
ATOM	3499	N	GLU	B	228	-5.193	64.322	55.034	1.00	94.63	B
ATOM	3500	CA	GLU	B	228	-6.535	64.800	54.702	1.00	94.63	B
ATOM	3501	CB	GLU	B	228	-7.334	65.083	55.972	1.00	100.07	B
ATOM	3502	CG	GLU	B	228	-7.381	63.944	56.966	1.00	100.07	B
ATOM	3503	CD	GLU	B	228	-8.436	64.167	58.030	1.00	100.07	B
ATOM	3504	OE1	GLU	B	228	-8.364	65.204	58.727	1.00	100.07	B
ATOM	3505	OE2	GLU	B	228	-9.337	63.308	58.161	1.00	100.07	B
ATOM	3506	C	GLU	B	228	-6.259	66.119	53.991	1.00	94.63	B
ATOM	3507	O	GLU	B	228	-5.305	66.805	54.344	1.00	94.63	B
ATOM	3508	N	ALA	B	229	-7.070	66.505	53.015	1.00	52.60	B
ATOM	3509	CA	ALA	B	229	-6.754	67.753	52.343	1.00	52.60	B
ATOM	3510	CB	ALA	B	229	-5.594	67.519	51.423	1.00	61.53	B
ATOM	3511	C	ALA	B	229	-7.841	68.485	51.583	1.00	52.60	B
ATOM	3512	O	ALA	B	229	-8.541	69.333	52.148	1.00	52.60	B
ATOM	3513	N	ALA	B	230	-7.935	68.183	50.286	1.00	100.07	B
ATOM	3514	CA	ALA	B	230	-8.904	68.802	49.378	1.00	100.07	B
ATOM	3515	CB	ALA	B	230	-10.315	68.785	50.000	1.00	86.00	B
ATOM	3516	C	ALA	B	230	-8.485	70.238	49.053	1.00	100.07	B
ATOM	3517	O	ALA	B	230	-9.093	71.192	49.541	1.00	100.07	B
ATOM	3518	N	ALA	B	231	-7.458	70.391	48.219	1.00	99.41	B
ATOM	3519	CA	ALA	B	231	-6.959	71.718	47.861	1.00	99.41	B
ATOM	3520	CB	ALA	B	231	-5.487	71.637	47.519	1.00	67.22	B
ATOM	3521	C	ALA	B	231	-7.708	72.376	46.712	1.00	99.41	B
ATOM	3522	O	ALA	B	231	-8.433	71.649	45.999	1.00	99.41	B
ATOM	3523	OT	ALA	B	231	-7.534	73.609	46.537	1.00	67.22	B
ATOM	3524	CB	ALA	C	2	-8.451	96.575	31.813	1.00	53.37	C
ATOM	3525	C	ALA	C	2	10.543	97.948	31.601	1.00	100.07	C
ATOM	3526	O	ALA	C	2	11.375	97.053	31.752	1.00	100.07	C
ATOM	3527	N	ALA	C	2	9.353	97.162	29.585	1.00	100.07	C
ATOM	3528	CA	ALA	C	2	9.179	97.641	30.982	1.00	100.07	C
ATOM	3529	N	ILE	C	3	10.767	99.214	31.947	1.00	81.15	C
ATOM	3530	CA	ILE	C	3	12.023	99.650	32.559	1.00	81.15	C
ATOM	3531	CB	ILE	C	3	13.110	99.940	31.495	1.00	93.79	C
ATOM	3532	CG2	ILE	C	3	14.432	100.195	32.189	1.00	93.79	C
ATOM	3533	CG1	ILE	C	3	13.238	98.780	30.507	1.00	93.79	C
ATOM	3534	CD	ILE	C	3	14.326	98.989	29.475	1.00	100.07	C
ATOM	3535	C	ILE	C	3	11.802	100.958	33.327	1.00	81.15	C
ATOM	3536	O	ILE	C	3	10.910	101.732	32.994	1.00	81.15	C
ATOM	3537	N	LYS	C	4	12.612	101.207	34.350	1.00	44.10	C
ATOM	3538	CA	LYS	C	4	12.499	102.454	35.094	1.00	44.10	C
ATOM	3539	CB	LYS	C	4	12.878	102.253	36.557	1.00	100.07	C
ATOM	3540	CG	LYS	C	4	11.725	101.814	37.447	1.00	100.07	C
ATOM	3541	CD	LYS	C	4	10.552	102.791	37.379	1.00	100.07	C
ATOM	3542	CE	LYS	C	4	9.385	102.339	38.260	1.00	100.07	C
ATOM	3543	NZ	LYS	C	4	8.140	103.097	37.957	1.00	100.07	C
ATOM	3544	C	LYS	C	4	13.431	103.477	34.462	1.00	44.10	C
ATOM	3545	O	LYS	C	4	14.417	103.115	33.821	1.00	44.10	C
ATOM	3546	N	ARG	C	5	13.134	104.755	34.646	1.00	69.39	C
ATOM	3547	CA	ARG	C	5	13.965	105.793	34.055	1.00	69.39	C
ATOM	3548	CB	ARG	C	5	13.426	106.148	32.657	1.00	100.07	C
ATOM	3549	CG	ARG	C	5	13.674	105.075	31.584	1.00	100.07	C
ATOM	3550	CD	ARG	C	5	13.416	105.601	30.150	1.00	100.07	C
ATOM	3551	NE	ARG	C	5	14.206	104.883	29.142	1.00	100.07	C
ATOM	3552	CZ	ARG	C	5	14.259	105.194	27.846	1.00	100.07	C
ATOM	3553	NH1	ARG	C	5	13.562	106.222	27.370	1.00	100.07	C
ATOM	3554	NH2	ARG	C	5	15.026	104.479	27.027	1.00	100.07	C
ATOM	3555	C	ARG	C	5	14.093	107.064	34.902	1.00	69.39	C
ATOM	3556	O	ARG	C	5	13.120	107.801	35.079	1.00	69.39	C
ATOM	3557	N	PHE	C	6	15.292	107.315	35.423	1.00	100.07	C
ATOM	3558	CA	PHE	C	6	15.548	108.513	36.223	1.00	100.07	C
ATOM	3559	CB	PHE	C	6	15.612	108.195	37.731	1.00	99.71	C
ATOM	3560	CG	PHE	C	6	15.918	106.737	38.077	1.00	99.71	C
ATOM	3561	CD1	PHE	C	6	16.705	105.933	37.252	1.00	99.71	C
ATOM	3562	CD2	PHE	C	6	15.452	106.193	39.283	1.00	99.71	C
ATOM	3563	CE1	PHE	C	6	17.019	104.621	37.626	1.00	99.71	C
ATOM	3564	CE2	PHE	C	6	15.765	104.890	39.656	1.00	99.71	C
ATOM	3565	CZ	PHE	C	6	16.549	104.106	38.829	1.00	99.71	C
ATOM	3566	C	PHE	C	6	16.846	109.201	35.809	1.00	100.07	C
ATOM	3567	O	PHE	C	6	17.869	108.537	35.661	1.00	100.07	C
ATOM	3568	N	GLY	C	7	16.807	110.527	35.636	1.00	100.07	C
ATOM	3569	CA	GLY	C	7	17.999	111.262	35.234	1.00	100.07	C
ATOM	3570	C	GLY	C	7	17.800	112.707	34.786	1.00	100.07	C
ATOM	3571	O	GLY	C	7	16.872	113.377	35.236	1.00	100.07	C
ATOM	3572	N	ARG	C	8	18.680	113.192	33.907	1.00	100.07	C
ATOM	3573	CA	ARG	C	8	18.598	114.567	33.397	1.00	100.07	C
ATOM	3574	CB	ARG	C	8	19.496	115.481	34.225	1.00	100.07	C

ATOM	3575	CG	ARG	C	8	18.927	115.746	35.607	1.00100.07	C
ATOM	3576	CD	ARG	C	8	19.469	117.043	36.189	1.00100.07	C
ATOM	3577	NE	ARG	C	8	18.818	117.431	37.441	1.00100.07	C
ATOM	3578	CZ	ARG	C	8	19.094	118.552	38.102	1.00100.07	C
ATOM	3579	NH1	ARG	C	8	20.008	119.390	37.630	1.00100.07	C
ATOM	3580	NH2	ARG	C	8	18.457	118.839	39.231	1.00100.07	C
ATOM	3581	C	ARG	C	8	18.882	114.767	31.894	1.00100.07	C
ATOM	3582	O	ARG	C	8	19.199	113.813	31.185	1.00100.07	C
ATOM	3583	N	ILE	C	9	18.751	116.014	31.431	1.00 85.07	C
ATOM	3584	CA	ILE	C	9	18.926	116.420	30.023	1.00 85.07	C
ATOM	3585	CB	ILE	C	9	20.126	117.398	29.855	1.00100.07	C
ATOM	3586	CG2	ILE	C	9	19.985	118.164	28.559	1.00100.07	C
ATOM	3587	CG1	ILE	C	9	20.143	118.438	30.981	1.00100.07	C
ATOM	3588	CD	ILE	C	9	20.695	117.922	32.299	1.00100.07	C
ATOM	3589	C	ILE	C	9	19.057	115.295	28.985	1.00 85.07	C
ATOM	3590	O	ILE	C	9	18.302	114.318	29.031	1.00 85.07	C
ATOM	3591	N	ARG	C	10	20.005	115.455	28.057	1.00 99.59	C
ATOM	3592	CA	ARG	C	10	20.296	114.509	26.965	1.00 99.59	C
ATOM	3593	CB	ARG	C	10	19.120	113.546	26.737	1.00100.07	C
ATOM	3594	CG	ARG	C	10	19.272	112.570	25.575	1.00100.07	C
ATOM	3595	CD	ARG	C	10	17.906	112.005	25.201	1.00100.07	C
ATOM	3596	NE	ARG	C	10	17.909	111.286	23.926	1.00100.07	C
ATOM	3597	CZ	ARG	C	10	16.810	110.992	23.233	1.00100.07	C
ATOM	3598	NH1	ARG	C	10	15.619	111.358	23.693	1.00100.07	C
ATOM	3599	NH2	ARG	C	10	16.895	110.335	22.080	1.00100.07	C
ATOM	3600	C	ARG	C	10	20.530	115.345	25.701	1.00 99.59	C
ATOM	3601	O	ARG	C	10	20.543	114.831	24.577	1.00 99.59	C
ATOM	3602	N	GLU	C	11	20.709	116.644	25.921	1.00 95.59	C
ATOM	3603	CA	GLU	C	11	20.938	117.651	24.886	1.00 95.59	C
ATOM	3604	CB	GLU	C	11	21.781	118.774	25.511	1.00100.07	C
ATOM	3605	CG	GLU	C	11	22.184	119.942	24.628	1.00100.07	C
ATOM	3606	CD	GLU	C	11	22.520	121.210	25.446	1.00100.07	C
ATOM	3607	OE1	GLU	C	11	22.983	121.095	26.608	1.00100.07	C
ATOM	3608	OE2	GLU	C	11	22.320	122.331	24.924	1.00100.07	C
ATOM	3609	C	GLU	C	11	21.563	117.139	23.587	1.00 95.59	C
ATOM	3610	O	GLU	C	11	21.159	117.543	22.499	1.00 95.59	C
ATOM	3611	N	VAL	C	12	22.512	116.218	23.702	1.00 56.92	C
ATOM	3612	CA	VAL	C	12	23.217	115.671	22.550	1.00 56.92	C
ATOM	3613	CB	VAL	C	12	24.625	116.262	22.499	1.00 43.85	C
ATOM	3614	CG1	VAL	C	12	25.498	115.474	21.577	1.00 43.85	C
ATOM	3615	CG2	VAL	C	12	24.546	117.685	22.058	1.00 43.85	C
ATOM	3616	C	VAL	C	12	23.328	114.146	22.545	1.00 56.92	C
ATOM	3617	O	VAL	C	12	23.437	113.518	23.598	1.00 56.92	C
ATOM	3618	N	ILE	C	13	23.300	113.553	21.355	1.00 99.52	C
ATOM	3619	CA	ILE	C	13	23.432	112.108	21.241	1.00 99.52	C
ATOM	3620	CB	ILE	C	13	23.132	111.590	19.820	1.00100.07	C
ATOM	3621	CG2	ILE	C	13	22.625	110.156	19.893	1.00100.07	C
ATOM	3622	CG1	ILE	C	13	22.054	112.449	19.155	1.00100.07	C
ATOM	3623	CD	ILE	C	13	22.575	113.725	18.488	1.00100.07	C
ATOM	3624	C	ILE	C	13	24.894	111.855	21.544	1.00 99.52	C
ATOM	3625	O	ILE	C	13	25.757	112.650	21.163	1.00 99.52	C
ATOM	3626	N	PRO	C	14	25.200	110.736	22.227	1.00100.07	C
ATOM	3627	CD	PRO	C	14	24.342	109.569	22.493	1.00100.07	C
ATOM	3628	CA	PRO	C	14	26.593	110.446	22.556	1.00100.07	C
ATOM	3629	CB	PRO	C	14	26.490	109.130	23.332	1.00100.07	C
ATOM	3630	CG	PRO	C	14	25.350	108.445	22.665	1.00100.07	C
ATOM	3631	C	PRO	C	14	27.476	110.327	21.320	1.00100.07	C
ATOM	3632	O	PRO	C	14	28.511	109.674	21.365	1.00100.07	C
ATOM	3633	N	LEU	C	15	27.078	110.958	20.219	1.00 99.37	C
ATOM	3634	CA	LEU	C	15	27.881	110.878	19.005	1.00 99.37	C
ATOM	3635	CB	LEU	C	15	29.251	111.501	19.246	1.00100.07	C
ATOM	3636	CG	LEU	C	15	30.244	111.561	18.075	1.00100.07	C
ATOM	3637	CD1	LEU	C	15	29.893	112.702	17.119	1.00100.07	C
ATOM	3638	CD2	LEU	C	15	31.651	111.754	18.636	1.00100.07	C
ATOM	3639	C	LEU	C	15	28.070	109.407	18.699	1.00 99.37	C
ATOM	3640	O	LEU	C	15	29.199	108.923	18.664	1.00 99.37	C
ATOM	3641	N	PRO	C	16	26.971	108.679	18.437	1.00100.07	C
ATOM	3642	CD	PRO	C	16	25.660	109.213	18.031	1.00100.07	C
ATOM	3643	CA	PRO	C	16	27.061	107.240	18.140	1.00100.07	C
ATOM	3644	CB	PRO	C	16	25.775	106.966	17.360	1.00100.07	C
ATOM	3645	CG	PRO	C	16	24.841	107.955	17.909	1.00100.07	C
ATOM	3646	C	PRO	C	16	28.302	106.699	17.406	1.00100.07	C
ATOM	3647	O	PRO	C	16	28.760	105.584	17.681	1.00100.07	C
ATOM	3648	N	PRO	C	17	28.854	107.471	16.450	1.00 99.96	C
ATOM	3649	CD	PRO	C	17	28.398	108.764	15.935	1.00 64.04	C
ATOM	3650	CA	PRO	C	17	30.028	107.035	15.703	1.00 99.96	C
ATOM	3651	CB	PRO	C	17	30.477	108.311	14.983	1.00 64.04	C
ATOM	3652	CG	PRO	C	17	29.696	109.415	15.628	1.00 64.04	C
ATOM	3653	C	PRO	C	17	31.161	106.357	16.457	1.00 99.96	C
ATOM	3654	O	PRO	C	17	31.907	105.604	15.853	1.00 99.96	C
ATOM	3655	N	LEU	C	18	31.301	106.626	17.752	1.00 50.16	C
ATOM	3656	CA	LEU	C	18	32.350	106.007	18.582	1.00 50.16	C
ATOM	3657	CB	LEU	C	18	31.787	104.823	19.361	1.00 59.86	C
ATOM	3658	CG	LEU	C	18	30.732	105.193	20.405	1.00 59.86	C

ATOM	3659	CD1	LEU	C	18	30.211	103.942	21.081	1.00	59.86	C
ATOM	3660	CD2	LEU	C	18	31.331	106.124	21.437	1.00	59.86	C
ATOM	3661	C	LEU	C	18	33.578	105.557	17.810	1.00	50.16	C
ATOM	3662	O	LEU	C	18	34.634	106.132	17.970	1.00	50.16	C
ATOM	3663	N	THR	C	19	33.466	104.514	16.996	1.00	32.85	C
ATOM	3664	CA	THR	C	19	34.601	104.091	16.188	1.00	32.85	C
ATOM	3665	CB	THR	C	19	34.215	103.051	15.154	1.00	36.99	C
ATOM	3666	OG1	THR	C	19	32.891	102.580	15.411	1.00	36.99	C
ATOM	3667	CG2	THR	C	19	35.177	101.885	15.207	1.00	36.99	C
ATOM	3668	C	THR	C	19	35.015	105.327	15.417	1.00	32.85	C
ATOM	3669	O	THR	C	19	36.025	105.339	14.725	1.00	32.85	C
ATOM	3670	N	GLU	C	20	34.206	106.369	15.521	1.00	32.76	C
ATOM	3671	CA	GLU	C	20	34.486	107.618	14.854	1.00	32.76	C
ATOM	3672	CB	GLU	C	20	33.607	108.721	15.422	1.00	100.07	C
ATOM	3673	CG	GLU	C	20	33.657	110.004	14.618	1.00	100.07	C
ATOM	3674	CD	GLU	C	20	33.655	111.242	15.479	1.00	100.07	C
ATOM	3675	OE1	GLU	C	20	33.507	112.342	14.908	1.00	100.07	C
ATOM	3676	OE2	GLU	C	20	33.810	111.121	16.715	1.00	100.07	C
ATOM	3677	C	GLU	C	20	35.938	108.001	15.064	1.00	32.76	C
ATOM	3678	O	GLU	C	20	36.460	108.812	14.316	1.00	32.76	C
ATOM	3679	N	ILE	C	21	36.577	107.425	16.085	1.00	35.52	C
ATOM	3680	CA	ILE	C	21	37.971	107.736	16.404	1.00	35.52	C
ATOM	3681	CB	ILE	C	21	38.569	106.773	17.419	1.00	65.40	C
ATOM	3682	CG2	ILE	C	21	39.876	107.347	17.923	1.00	65.40	C
ATOM	3683	CG1	ILE	C	21	37.598	106.551	18.578	1.00	65.40	C
ATOM	3684	CD	ILE	C	21	37.203	107.819	19.338	1.00	100.07	C
ATOM	3685	C	ILE	C	21	38.802	107.632	15.160	1.00	35.52	C
ATOM	3686	O	ILE	C	21	39.426	108.604	14.729	1.00	35.52	C
ATOM	3687	N	GLN	C	22	38.803	106.432	14.597	1.00	55.89	C
ATOM	3688	CA	GLN	C	22	39.516	106.164	13.376	1.00	55.89	C
ATOM	3689	CB	GLN	C	22	40.142	104.778	13.451	1.00	99.33	C
ATOM	3690	CG	GLN	C	22	40.993	104.623	14.694	1.00	99.33	C
ATOM	3691	CD	GLN	C	22	41.568	103.237	14.869	1.00	99.33	C
ATOM	3692	OE1	GLN	C	22	40.839	102.250	14.883	1.00	99.33	C
ATOM	3693	NE2	GLN	C	22	42.886	103.157	15.016	1.00	99.33	C
ATOM	3694	C	GLN	C	22	38.423	106.240	12.326	1.00	55.89	C
ATOM	3695	O	GLN	C	22	37.927	107.324	12.026	1.00	55.89	C
ATOM	3696	N	VAL	C	23	38.021	105.098	11.796	1.00	60.15	C
ATOM	3697	CA	VAL	C	23	36.971	105.082	10.799	1.00	60.15	C
ATOM	3698	CB	VAL	C	23	35.585	105.203	11.433	1.00	77.73	C
ATOM	3699	CG1	VAL	C	23	34.519	105.126	10.355	1.00	77.73	C
ATOM	3700	CG2	VAL	C	23	35.386	104.111	12.448	1.00	77.73	C
ATOM	3701	C	VAL	C	23	37.148	106.268	9.889	1.00	60.15	C
ATOM	3702	O	VAL	C	23	37.848	106.183	8.887	1.00	60.15	C
ATOM	3703	N	GLU	C	24	36.520	107.380	10.262	1.00	55.50	C
ATOM	3704	CA	GLU	C	24	36.583	108.605	9.476	1.00	55.50	C
ATOM	3705	CB	GLU	C	24	35.516	109.589	9.954	1.00	99.93	C
ATOM	3706	CG	GLU	C	24	34.191	109.379	9.248	1.00	99.93	C
ATOM	3707	CD	GLU	C	24	33.005	109.889	10.034	1.00	99.93	C
ATOM	3708	OE1	GLU	C	24	32.655	109.287	11.070	1.00	99.93	C
ATOM	3709	OE2	GLU	C	24	32.415	110.899	9.612	1.00	99.93	C
ATOM	3710	C	GLU	C	24	37.954	109.256	9.437	1.00	55.50	C
ATOM	3711	O	GLU	C	24	38.154	110.262	8.748	1.00	55.50	C
ATOM	3712	N	SER	C	25	38.898	108.675	10.170	1.00	42.32	C
ATOM	3713	CA	SER	C	25	40.260	109.177	10.159	1.00	42.32	C
ATOM	3714	CB	SER	C	25	41.079	108.583	11.304	1.00	98.36	C
ATOM	3715	OG	SER	C	25	40.465	108.848	12.545	1.00	98.36	C
ATOM	3716	C	SER	C	25	40.798	108.663	8.840	1.00	42.32	C
ATOM	3717	O	SER	C	25	40.875	109.392	7.861	1.00	42.32	C
ATOM	3718	N	TYR	C	26	41.145	107.384	8.816	1.00	75.16	C
ATOM	3719	CA	TYR	C	26	41.678	106.783	7.611	1.00	75.16	C
ATOM	3720	CB	TYR	C	26	41.438	105.282	7.618	1.00	100.07	C
ATOM	3721	CG	TYR	C	26	42.516	104.534	6.899	1.00	100.07	C
ATOM	3722	CD1	TYR	C	26	43.832	104.630	7.321	1.00	100.07	C
ATOM	3723	CE1	TYR	C	26	44.845	103.972	6.663	1.00	100.07	C
ATOM	3724	CD2	TYR	C	26	42.236	103.751	5.786	1.00	100.07	C
ATOM	3725	CE2	TYR	C	26	43.250	103.080	5.116	1.00	100.07	C
ATOM	3726	CZ	TYR	C	26	44.555	103.202	5.565	1.00	100.07	C
ATOM	3727	OH	TYR	C	26	45.588	102.560	4.935	1.00	100.07	C
ATOM	3728	C	TYR	C	26	41.002	107.397	6.395	1.00	75.16	C
ATOM	3729	O	TYR	C	26	41.646	108.057	5.580	1.00	75.16	C
ATOM	3730	N	LYS	C	27	39.691	107.190	6.305	1.00	67.08	C
ATOM	3731	CA	LYS	C	27	38.881	107.683	5.194	1.00	67.08	C
ATOM	3732	CB	LYS	C	27	37.415	107.691	5.594	1.00	100.07	C
ATOM	3733	CG	LYS	C	27	36.458	107.978	4.472	1.00	100.07	C
ATOM	3734	CD	LYS	C	27	35.049	107.654	4.925	1.00	100.07	C
ATOM	3735	CE	LYS	C	27	34.041	107.911	3.830	1.00	100.07	C
ATOM	3736	NZ	LYS	C	27	32.669	107.557	4.281	1.00	100.07	C
ATOM	3737	C	LYS	C	27	39.282	109.070	4.733	1.00	67.08	C
ATOM	3738	O	LYS	C	27	39.199	109.383	3.551	1.00	67.08	C
ATOM	3739	N	LYS	C	28	39.695	109.893	5.692	1.00	59.84	C
ATOM	3740	CA	LYS	C	28	40.134	111.261	5.412	1.00	59.84	C
ATOM	3741	CB	LYS	C	28	40.065	112.147	6.671	1.00	100.07	C
ATOM	3742	CG	LYS	C	28	38.706	112.797	6.947	1.00	100.07	C

ATOM	3743	CD	LYS	C	28	38.404	113.913	5.950	1.00100.07	C
ATOM	3744	CE	LYS	C	28	37.034	114.523	6.218	1.00100.07	C
ATOM	3745	NZ	LYS	C	28	36.619	115.506	5.170	1.00100.07	C
ATOM	3746	C	LYS	C	28	41.564	111.243	4.916	1.00 59.84	C
ATOM	3747	O	LYS	C	28	41.858	111.780	3.854	1.00 59.84	C
ATOM	3748	N	ALA	C	29	42.455	110.638	5.698	1.00 51.31	C
ATOM	3749	CA	ALA	C	29	43.851	110.559	5.307	1.00 51.31	C
ATOM	3750	CB	ALA	C	29	44.602	109.621	6.214	1.00 88.35	C
ATOM	3751	C	ALA	C	29	43.860	110.038	3.882	1.00 51.31	C
ATOM	3752	O	ALA	C	29	44.590	110.549	3.042	1.00 51.31	C
ATOM	3753	N	LEU	C	30	43.026	109.033	3.636	1.00 91.88	C
ATOM	3754	CA	LEU	C	30	42.881	108.405	2.339	1.00 91.88	C
ATOM	3755	CB	LEU	C	30	42.478	106.948	2.546	1.00100.07	C
ATOM	3756	CG	LEU	C	30	42.047	106.095	1.358	1.00100.07	C
ATOM	3757	CD1	LEU	C	30	43.199	105.879	0.382	1.00100.07	C
ATOM	3758	CD2	LEU	C	30	41.536	104.771	1.898	1.00100.07	C
ATOM	3759	C	LEU	C	30	41.797	109.150	1.542	1.00 91.88	C
ATOM	3760	O	LEU	C	30	40.646	108.706	1.455	1.00 91.88	C
ATOM	3761	N	GLN	C	31	42.175	110.296	0.983	1.00 74.59	C
ATOM	3762	CA	GLN	C	31	41.281	111.140	0.187	1.00 74.59	C
ATOM	3763	CB	GLN	C	31	42.088	112.024	-0.753	1.00 86.91	C
ATOM	3764	CG	GLN	C	31	43.415	112.501	-0.149	1.00 86.91	C
ATOM	3765	CD	GLN	C	31	43.279	113.804	0.586	1.00 86.91	C
ATOM	3766	OE1	GLN	C	31	42.168	114.243	0.884	1.00 86.91	C
ATOM	3767	NE2	GLN	C	31	44.407	114.436	0.879	1.00 86.91	C
ATOM	3768	C	GLN	C	31	40.338	110.323	-0.643	1.00 74.59	C
ATOM	3769	O	GLN	C	31	39.253	110.778	-0.967	1.00 74.59	C
ATOM	3770	N	ALA	C	32	40.792	109.117	-0.993	1.00100.07	C
ATOM	3771	CA	ALA	C	32	40.055	108.150	-1.800	1.00100.07	C
ATOM	3772	CB	ALA	C	32	40.292	106.764	-1.247	1.00 90.82	C
ATOM	3773	C	ALA	C	32	38.545	108.380	-1.981	1.00100.07	C
ATOM	3774	O	ALA	C	32	37.872	108.891	-1.094	1.00100.07	C
ATOM	3775	N	ASP	C	33	38.026	107.953	-3.146	1.00 57.55	C
ATOM	3776	CA	ASP	C	33	36.605	108.101	-3.465	1.00 57.55	C
ATOM	3777	CB	ASP	C	33	35.774	107.377	-2.407	1.00100.07	C
ATOM	3778	CG	ASP	C	33	34.822	106.382	-3.030	1.00100.07	C
ATOM	3779	OD1	ASP	C	33	34.015	106.799	-3.884	1.00100.07	C
ATOM	3780	OD2	ASP	C	33	34.878	105.176	-2.662	1.00100.07	C
ATOM	3781	C	ASP	C	33	36.124	109.528	-3.589	1.00 57.55	C
ATOM	3782	O	ASP	C	33	34.998	109.845	-3.209	1.00 57.55	C
ATOM	3783	N	VAL	C	34	37.005	110.363	-4.125	1.00 71.46	C
ATOM	3784	CA	VAL	C	34	36.753	111.782	-4.358	1.00 71.46	C
ATOM	3785	CB	VAL	C	34	37.561	112.629	-3.350	1.00100.07	C
ATOM	3786	CG1	VAL	C	34	37.598	114.073	-3.769	1.00100.07	C
ATOM	3787	CG2	VAL	C	34	36.953	112.475	-1.962	1.00100.07	C
ATOM	3788	C	VAL	C	34	37.234	112.075	-5.768	1.00 71.46	C
ATOM	3789	O	VAL	C	34	38.048	111.329	-6.308	1.00 71.46	C
ATOM	3790	N	PRO	C	35	36.727	113.133	-6.402	1.00 40.20	C
ATOM	3791	CD	PRO	C	35	35.675	114.131	-6.165	1.00100.07	C
ATOM	3792	CA	PRO	C	35	37.300	113.274	-7.744	1.00 40.20	C
ATOM	3793	CB	PRO	C	35	36.415	114.335	-8.382	1.00100.07	C
ATOM	3794	CG	PRO	C	35	35.973	115.170	-7.224	1.00100.07	C
ATOM	3795	C	PRO	C	35	38.737	113.731	-7.519	1.00 40.20	C
ATOM	3796	O	PRO	C	35	38.993	114.627	-6.707	1.00 40.20	C
ATOM	3797	N	PRO	C	36	39.690	113.075	-8.187	1.00 61.53	C
ATOM	3798	CD	PRO	C	36	39.478	112.085	-9.256	1.00 99.99	C
ATOM	3799	CA	PRO	C	36	41.109	113.404	-8.051	1.00 61.53	C
ATOM	3800	CB	PRO	C	36	41.781	112.359	-8.924	1.00 99.99	C
ATOM	3801	CG	PRO	C	36	40.775	112.169	-10.027	1.00 99.99	C
ATOM	3802	C	PRO	C	36	41.413	114.817	-8.511	1.00 61.53	C
ATOM	3803	O	PRO	C	36	42.157	115.010	-9.461	1.00 61.53	C
ATOM	3804	N	GLU	C	37	40.845	115.804	-7.826	1.00 98.76	C
ATOM	3805	CA	GLU	C	37	41.050	117.192	-8.205	1.00 98.76	C
ATOM	3806	CB	GLU	C	37	40.113	117.549	-9.354	1.00 99.98	C
ATOM	3807	CG	GLU	C	37	39.001	116.546	-9.533	1.00 99.98	C
ATOM	3808	CD	GLU	C	37	38.120	116.890	-10.691	1.00 99.98	C
ATOM	3809	OE1	GLU	C	37	37.466	117.951	-10.639	1.00 99.98	C
ATOM	3810	OE2	GLU	C	37	38.086	116.097	-11.649	1.00 99.98	C
ATOM	3811	C	GLU	C	37	40.791	118.120	-7.035	1.00 98.76	C
ATOM	3812	O	GLU	C	37	40.722	119.337	-7.204	1.00 98.76	C
ATOM	3813	N	LYS	C	38	40.651	117.538	-5.849	1.00 70.78	C
ATOM	3814	CA	LYS	C	38	40.376	118.297	-4.638	1.00 70.78	C
ATOM	3815	CB	LYS	C	38	38.906	118.749	-4.632	1.00100.07	C
ATOM	3816	CG	LYS	C	38	38.554	119.782	-5.696	1.00100.07	C
ATOM	3817	CD	LYS	C	38	37.056	120.027	-5.825	1.00100.07	C
ATOM	3818	CE	LYS	C	38	36.763	121.178	-6.788	1.00100.07	C
ATOM	3819	NZ	LYS	C	38	35.295	121.278	-7.073	1.00100.07	C
ATOM	3820	C	LYS	C	38	40.667	117.469	-3.401	1.00 70.78	C
ATOM	3821	O	LYS	C	38	39.973	116.489	-3.132	1.00 70.78	C
ATOM	3822	N	ALA	C	39	41.700	117.879	-2.667	1.00 97.46	C
ATOM	3823	CA	ALA	C	39	42.127	117.217	-1.435	1.00 97.46	C
ATOM	3824	CB	ALA	C	39	41.930	115.719	-1.538	1.00100.07	C
ATOM	3825	C	ALA	C	39	43.588	117.513	-1.102	1.00 97.46	C
ATOM	3826	O	ALA	C	39	44.317	118.122	-1.883	1.00 97.46	C

ATOM	3827	N	GLU	C	40	44.004	117.062	0.074	1.00	81.94	C
ATOM	3828	CA	GLU	C	40	45.366	117.233	0.587	1.00	81.94	C
ATOM	3829	CB	GLU	C	40	45.814	118.684	0.455	1.00	100.07	C
ATOM	3830	CG	GLU	C	40	44.826	119.635	1.114	1.00	100.07	C
ATOM	3831	CD	GLU	C	40	45.454	120.949	1.573	1.00	100.07	C
ATOM	3832	OE1	GLU	C	40	45.907	121.737	0.714	1.00	100.07	C
ATOM	3833	OE2	GLU	C	40	45.491	121.204	2.799	1.00	100.07	C
ATOM	3834	C	GLU	C	40	45.323	116.859	2.067	1.00	81.94	C
ATOM	3835	O	GLU	C	40	46.356	116.673	2.708	1.00	81.94	C
ATOM	3836	N	ASN	C	41	44.105	116.769	2.597	1.00	99.27	C
ATOM	3837	CA	ASN	C	41	43.874	116.422	4.001	1.00	99.27	C
ATOM	3838	CB	ASN	C	41	42.415	115.967	4.210	1.00	100.07	C
ATOM	3839	CG	ASN	C	41	41.398	117.093	3.998	1.00	100.07	C
ATOM	3840	OD1	ASN	C	41	41.190	117.943	4.873	1.00	100.07	C
ATOM	3841	ND2	ASN	C	41	40.754	117.095	2.831	1.00	100.07	C
ATOM	3842	C	ASN	C	41	44.834	115.315	4.437	1.00	99.27	C
ATOM	3843	O	ASN	C	41	44.878	114.246	3.817	1.00	99.27	C
ATOM	3844	N	VAL	C	42	45.593	115.580	5.504	1.00	100.07	C
ATOM	3845	CA	VAL	C	42	46.580	114.640	6.035	1.00	100.07	C
ATOM	3846	CB	VAL	C	42	45.904	113.475	6.763	1.00	76.43	C
ATOM	3847	CG1	VAL	C	42	46.951	112.652	7.502	1.00	76.43	C
ATOM	3848	CG2	VAL	C	42	44.876	114.012	7.729	1.00	76.43	C
ATOM	3849	C	VAL	C	42	47.472	114.103	4.911	1.00	100.07	C
ATOM	3850	O	VAL	C	42	48.464	113.420	5.156	1.00	100.07	C
ATOM	3851	N	GLY	C	43	47.078	114.408	3.678	1.00	100.07	C
ATOM	3852	CA	GLY	C	43	47.831	114.037	2.500	1.00	100.07	C
ATOM	3853	C	GLY	C	43	48.117	112.624	2.045	1.00	100.07	C
ATOM	3854	O	GLY	C	43	49.272	112.325	1.723	1.00	100.07	C
ATOM	3855	N	ILE	C	44	47.113	111.750	1.995	1.00	69.51	C
ATOM	3856	CA	ILE	C	44	47.371	110.402	1.483	1.00	69.51	C
ATOM	3857	CB	ILE	C	44	46.064	109.560	1.304	1.00	100.02	C
ATOM	3858	CG2	ILE	C	44	45.539	109.670	-0.132	1.00	100.02	C
ATOM	3859	CG1	ILE	C	44	46.323	108.087	1.627	1.00	100.02	C
ATOM	3860	CD	ILE	C	44	47.299	107.415	0.709	1.00	100.07	C
ATOM	3861	C	ILE	C	44	47.870	110.798	0.109	1.00	69.51	C
ATOM	3862	O	ILE	C	44	48.617	110.069	-0.549	1.00	69.51	C
ATOM	3863	N	GLN	C	45	47.414	111.994	-0.277	1.00	86.09	C
ATOM	3864	CA	GLN	C	45	47.715	112.635	-1.544	1.00	86.09	C
ATOM	3865	CB	GLN	C	45	46.484	113.385	-2.064	1.00	100.07	C
ATOM	3866	CG	GLN	C	45	46.638	113.864	-3.492	1.00	100.07	C
ATOM	3867	CD	GLN	C	45	45.850	115.117	-3.778	1.00	100.07	C
ATOM	3868	OE1	GLN	C	45	46.128	116.183	-3.224	1.00	100.07	C
ATOM	3869	NE2	GLN	C	45	44.864	114.998	-4.649	1.00	100.07	C
ATOM	3870	C	GLN	C	45	48.868	113.623	-1.419	1.00	86.09	C
ATOM	3871	O	GLN	C	45	49.804	113.599	-2.222	1.00	86.09	C
ATOM	3872	N	ALA	C	46	48.801	114.499	-0.422	1.00	99.82	C
ATOM	3873	CA	ALA	C	46	49.862	115.473	-0.261	1.00	99.82	C
ATOM	3874	CB	ALA	C	46	49.792	116.140	1.096	1.00	100.07	C
ATOM	3875	C	ALA	C	46	51.158	114.726	-0.406	1.00	99.82	C
ATOM	3876	O	ALA	C	46	51.988	115.092	-1.226	1.00	99.82	C
ATOM	3877	N	ALA	C	47	51.314	113.664	0.380	1.00	56.81	C
ATOM	3878	CA	ALA	C	47	52.527	112.846	0.341	1.00	56.81	C
ATOM	3879	CB	ALA	C	47	52.207	111.423	0.808	1.00	69.85	C
ATOM	3880	C	ALA	C	47	53.126	112.834	-1.077	1.00	56.81	C
ATOM	3881	O	ALA	C	47	54.343	112.959	-1.267	1.00	56.81	C
ATOM	3882	N	PHE	C	48	52.264	112.685	-2.074	1.00	97.93	C
ATOM	3883	CA	PHE	C	48	52.714	112.707	-3.447	1.00	97.93	C
ATOM	3884	CB	PHE	C	48	51.545	112.430	-4.390	1.00	99.49	C
ATOM	3885	CG	PHE	C	48	51.143	110.988	-4.446	1.00	99.49	C
ATOM	3886	CD1	PHE	C	48	51.027	110.241	-3.285	1.00	99.49	C
ATOM	3887	CD2	PHE	C	48	50.883	110.375	-5.662	1.00	99.49	C
ATOM	3888	CE1	PHE	C	48	50.661	108.908	-3.332	1.00	99.49	C
ATOM	3889	CE2	PHE	C	48	50.517	109.041	-5.716	1.00	99.49	C
ATOM	3890	CZ	PHE	C	48	50.406	108.307	-4.548	1.00	99.49	C
ATOM	3891	C	PHE	C	48	53.200	114.128	-3.616	1.00	97.93	C
ATOM	3892	O	PHE	C	48	54.404	114.375	-3.673	1.00	97.93	C
ATOM	3893	N	LYS	C	49	52.256	115.066	-3.655	1.00	55.20	C
ATOM	3894	CA	LYS	C	49	52.605	116.466	-3.817	1.00	55.20	C
ATOM	3895	CB	LYS	C	49	51.444	117.372	-3.413	1.00	100.07	C
ATOM	3896	CG	LYS	C	49	50.465	117.612	-4.557	1.00	100.07	C
ATOM	3897	CD	LYS	C	49	49.132	118.170	-4.088	1.00	100.07	C
ATOM	3898	CE	LYS	C	49	48.202	118.374	-5.284	1.00	100.07	C
ATOM	3899	NZ	LYS	C	49	46.814	118.754	-4.903	1.00	100.07	C
ATOM	3900	C	LYS	C	49	53.821	116.719	-2.965	1.00	55.20	C
ATOM	3901	O	LYS	C	49	54.805	117.274	-3.433	1.00	55.20	C
ATOM	3902	N	GLU	C	50	53.777	116.254	-1.724	1.00	44.34	C
ATOM	3903	CA	GLU	C	50	54.905	116.439	-0.815	1.00	44.34	C
ATOM	3904	CB	GLU	C	50	54.722	115.640	0.488	1.00	100.07	C
ATOM	3905	CG	GLU	C	50	53.460	115.940	1.288	1.00	100.07	C
ATOM	3906	CD	GLU	C	50	53.351	117.385	1.757	1.00	100.07	C
ATOM	3907	OE1	GLU	C	50	53.412	118.307	0.910	1.00	100.07	C
ATOM	3908	OE2	GLU	C	50	53.181	117.596	2.979	1.00	100.07	C
ATOM	3909	C	GLU	C	50	56.220	116.020	-1.473	1.00	44.34	C
ATOM	3910	O	GLU	C	50	57.013	116.875	-1.865	1.00	44.34	C

ATOM	3995	C	ALA	C	63	65.714	116.399	-18.943	1.00100.07	C
ATOM	3996	O	ALA	C	63	65.621	115.655	-19.923	1.00100.07	C
ATOM	3997	N	LEU	C	64	65.526	115.992	-17.683	1.00 99.55	C
ATOM	3998	CA	LEU	C	64	65.169	114.621	-17.292	1.00 99.55	C
ATOM	3999	CB	LEU	C	64	66.422	113.733	-17.185	1.00100.07	C
ATOM	4000	CG	LEU	C	64	66.507	112.380	-17.922	1.00100.07	C
ATOM	4001	CD1	LEU	C	64	67.912	111.798	-17.726	1.00100.07	C
ATOM	4002	CD2	LEU	C	64	65.450	111.407	-17.415	1.00100.07	C
ATOM	4003	C	LEU	C	64	64.499	114.708	-15.918	1.00 99.55	C
ATOM	4004	O	LEU	C	64	65.121	114.385	-14.908	1.00 99.55	C
ATOM	4005	N	VAL	C	65	63.244	115.163	-15.890	1.00100.07	C
ATOM	4006	CA	VAL	C	65	62.472	115.304	-14.650	1.00100.07	C
ATOM	4007	CB	VAL	C	65	62.309	116.786	-14.251	1.00100.07	C
ATOM	4008	CG1	VAL	C	65	60.950	117.010	-13.573	1.00100.07	C
ATOM	4009	CG2	VAL	C	65	63.439	117.185	-13.299	1.00100.07	C
ATOM	4010	C	VAL	C	65	61.079	114.671	-14.675	1.00100.07	C
ATOM	4011	O	VAL	C	65	60.302	114.859	-15.618	1.00100.07	C
ATOM	4012	N	LEU	C	66	60.769	113.947	-13.600	1.00 57.88	C
ATOM	4013	CA	LEU	C	66	59.485	113.276	-13.454	1.00 57.88	C
ATOM	4014	CB	LEU	C	66	59.680	111.955	-12.699	1.00100.07	C
ATOM	4015	CG	LEU	C	66	58.465	111.064	-12.426	1.00100.07	C
ATOM	4016	CD1	LEU	C	66	57.672	110.829	-13.702	1.00100.07	C
ATOM	4017	CD2	LEU	C	66	58.949	109.741	-11.833	1.00100.07	C
ATOM	4018	C	LEU	C	66	58.546	114.199	-12.687	1.00 57.88	C
ATOM	4019	O	LEU	C	66	58.964	115.238	-12.189	1.00 57.88	C
ATOM	4020	N	ASP	C	67	57.273	113.840	-12.617	1.00 64.25	C
ATOM	4021	CA	ASP	C	67	56.315	114.654	-11.890	1.00 64.25	C
ATOM	4022	CB	ASP	C	67	55.975	115.941	-12.664	1.00100.07	C
ATOM	4023	CG	ASP	C	67	55.108	115.691	-13.890	1.00100.07	C
ATOM	4024	OD1	ASP	C	67	55.411	114.752	-14.659	1.00100.07	C
ATOM	4025	OD2	ASP	C	67	54.130	116.451	-14.090	1.00100.07	C
ATOM	4026	C	ASP	C	67	55.074	113.829	-11.638	1.00 64.25	C
ATOM	4027	O	ASP	C	67	54.707	112.963	-12.432	1.00 64.25	C
ATOM	4028	N	PHE	C	68	54.425	114.114	-10.522	1.00 66.57	C
ATOM	4029	CA	PHE	C	68	53.252	113.379	-10.105	1.00 66.57	C
ATOM	4030	CB	PHE	C	68	53.213	113.339	-8.573	1.00100.07	C
ATOM	4031	CG	PHE	C	68	54.531	112.924	-7.950	1.00100.07	C
ATOM	4032	CD1	PHE	C	68	55.624	113.793	-7.936	1.00100.07	C
ATOM	4033	CD2	PHE	C	68	54.703	111.639	-7.447	1.00100.07	C
ATOM	4034	CE1	PHE	C	68	56.867	113.376	-7.436	1.00100.07	C
ATOM	4035	CE2	PHE	C	68	55.942	111.218	-6.947	1.00100.07	C
ATOM	4036	CZ	PHE	C	68	57.022	112.088	-6.945	1.00100.07	C
ATOM	4037	C	PHE	C	68	51.944	113.889	-10.658	1.00 66.57	C
ATOM	4038	O	PHE	C	68	51.899	114.866	-11.396	1.00 66.57	C
ATOM	4039	N	LEU	C	69	50.881	113.195	-10.280	1.00 95.34	C
ATOM	4040	CA	LEU	C	69	49.531	113.507	-10.709	1.00 95.34	C
ATOM	4041	CB	LEU	C	69	49.391	113.331	-12.216	1.00100.07	C
ATOM	4042	CG	LEU	C	69	49.315	114.595	-13.058	1.00100.07	C
ATOM	4043	CD1	LEU	C	69	48.891	114.220	-14.471	1.00100.07	C
ATOM	4044	CD2	LEU	C	69	48.312	115.564	-12.442	1.00100.07	C
ATOM	4045	C	LEU	C	69	48.583	112.538	-10.044	1.00 95.34	C
ATOM	4046	O	LEU	C	69	49.005	111.644	-9.309	1.00 95.34	C
ATOM	4047	N	GLU	C	70	47.299	112.726	-10.316	1.00100.07	C
ATOM	4048	CA	GLU	C	70	46.256	111.859	-9.791	1.00100.07	C
ATOM	4049	CB	GLU	C	70	45.807	110.893	-10.891	1.00100.07	C
ATOM	4050	CG	GLU	C	70	45.425	111.524	-12.218	1.00100.07	C
ATOM	4051	CD	GLU	C	70	43.941	111.500	-12.426	1.00100.07	C
ATOM	4052	OE1	GLU	C	70	43.246	112.323	-11.799	1.00100.07	C
ATOM	4053	OE2	GLU	C	70	43.472	110.641	-13.198	1.00100.07	C
ATOM	4054	C	GLU	C	70	46.670	111.040	-8.563	1.00100.07	C
ATOM	4055	O	GLU	C	70	47.365	111.521	-7.660	1.00100.07	C
ATOM	4056	N	TYR	C	71	46.230	109.786	-8.582	1.00 75.56	C
ATOM	4057	CA	TYR	C	71	46.433	108.778	-7.553	1.00 75.56	C
ATOM	4058	CB	TYR	C	71	46.438	109.401	-6.147	1.00100.07	C
ATOM	4059	CG	TYR	C	71	45.178	110.178	-5.798	1.00100.07	C
ATOM	4060	CD1	TYR	C	71	44.012	109.522	-5.395	1.00100.07	C
ATOM	4061	CE1	TYR	C	71	42.834	110.238	-5.105	1.00100.07	C
ATOM	4062	CD2	TYR	C	71	45.144	111.570	-5.899	1.00100.07	C
ATOM	4063	CE2	TYR	C	71	43.977	112.293	-5.613	1.00100.07	C
ATOM	4064	CZ	TYR	C	71	42.826	111.625	-5.216	1.00100.07	C
ATOM	4065	OH	TYR	C	71	41.690	112.358	-4.932	1.00100.07	C
ATOM	4066	C	TYR	C	71	45.219	107.865	-7.720	1.00 75.56	C
ATOM	4067	O	TYR	C	71	44.085	108.338	-7.858	1.00 75.56	C
ATOM	4068	N	ARG	C	72	45.438	106.560	-7.753	1.00 57.59	C
ATOM	4069	CA	ARG	C	72	44.301	105.674	-7.914	1.00 57.59	C
ATOM	4070	CB	ARG	C	72	43.982	105.494	-9.401	1.00100.07	C
ATOM	4071	CG	ARG	C	72	43.500	106.759	-10.104	1.00100.07	C
ATOM	4072	CD	ARG	C	72	43.271	106.502	-11.593	1.00100.07	C
ATOM	4073	NE	ARG	C	72	42.780	107.675	-12.329	1.00100.07	C
ATOM	4074	CZ	ARG	C	72	42.475	107.665	-13.629	1.00100.07	C
ATOM	4075	NH1	ARG	C	72	42.614	106.543	-14.330	1.00100.07	C
ATOM	4076	NH2	ARG	C	72	42.029	108.767	-14.233	1.00100.07	C
ATOM	4077	C	ARG	C	72	44.448	104.310	-7.257	1.00 57.59	C
ATOM	4078	O	ARG	C	72	45.223	103.465	-7.718	1.00 57.59	C

ATOM	4079	N	ILE	C	73	43.729	104.102	-6.155	1.00	63.88	C
ATOM	4080	CA	ILE	C	73	43.753	102.805	-5.486	1.00	63.88	C
ATOM	4081	CB	ILE	C	73	43.574	102.891	-3.953	1.00	100.07	C
ATOM	4082	CG2	ILE	C	73	44.622	102.078	-3.267	1.00	100.07	C
ATOM	4083	CG1	ILE	C	73	43.566	104.335	-3.483	1.00	100.07	C
ATOM	4084	CD	ILE	C	73	42.175	104.768	-3.007	1.00	100.07	C
ATOM	4085	C	ILE	C	73	42.480	102.205	-6.020	1.00	63.88	C
ATOM	4086	O	ILE	C	73	41.550	102.952	-6.328	1.00	63.88	C
ATOM	4087	N	GLY	C	74	42.399	100.888	-6.138	1.00	44.96	C
ATOM	4088	CA	GLY	C	74	41.148	100.354	-6.632	1.00	44.96	C
ATOM	4089	C	GLY	C	74	40.924	98.877	-6.468	1.00	44.96	C
ATOM	4090	O	GLY	C	74	41.841	98.124	-6.132	1.00	44.96	C
ATOM	4091	N	ASP	C	75	39.677	98.474	-6.688	1.00	61.25	C
ATOM	4092	CA	ASP	C	75	39.300	97.078	-6.613	1.00	61.25	C
ATOM	4093	CB	ASP	C	75	39.288	96.480	-8.028	1.00	100.07	C
ATOM	4094	CG	ASP	C	75	40.471	96.965	-8.906	1.00	100.07	C
ATOM	4095	OD1	ASP	C	75	40.641	98.191	-9.095	1.00	100.07	C
ATOM	4096	OD2	ASP	C	75	41.226	96.119	-9.436	1.00	100.07	C
ATOM	4097	C	ASP	C	75	40.181	96.218	-5.713	1.00	61.25	C
ATOM	4098	O	ASP	C	75	41.273	95.786	-6.117	1.00	61.25	C
ATOM	4099	N	PRO	C	76	39.734	95.979	-4.466	1.00	77.46	C
ATOM	4100	CD	PRO	C	76	38.632	96.635	-3.745	1.00	86.05	C
ATOM	4101	CA	PRO	C	76	40.526	95.146	-3.560	1.00	77.46	C
ATOM	4102	CB	PRO	C	76	39.699	95.140	-2.265	1.00	86.05	C
ATOM	4103	CG	PRO	C	76	38.326	95.626	-2.678	1.00	86.05	C
ATOM	4104	C	PRO	C	76	40.700	93.761	-4.196	1.00	77.46	C
ATOM	4105	O	PRO	C	76	39.734	93.129	-4.598	1.00	77.46	C
ATOM	4106	N	PRO	C	77	41.945	93.278	-4.278	1.00	54.01	C
ATOM	4107	CD	PRO	C	77	42.936	93.689	-3.269	1.00	64.03	C
ATOM	4108	CA	PRO	C	77	42.324	91.991	-4.859	1.00	54.01	C
ATOM	4109	CB	PRO	C	77	43.742	91.799	-4.366	1.00	64.03	C
ATOM	4110	CG	PRO	C	77	43.682	92.410	-3.004	1.00	64.03	C
ATOM	4111	C	PRO	C	77	41.414	90.884	-4.392	1.00	54.01	C
ATOM	4112	O	PRO	C	77	40.760	90.225	-5.202	1.00	54.01	C
ATOM	4113	N	PHE	C	78	41.390	90.676	-3.079	1.00	58.09	C
ATOM	4114	CA	PHE	C	78	40.554	89.647	-2.454	1.00	58.09	C
ATOM	4115	CB	PHE	C	78	41.398	88.629	-1.699	1.00	98.77	C
ATOM	4116	CG	PHE	C	78	41.846	87.485	-2.530	1.00	98.77	C
ATOM	4117	CD1	PHE	C	78	43.037	87.554	-3.225	1.00	98.77	C
ATOM	4118	CD2	PHE	C	78	41.091	86.321	-2.588	1.00	98.77	C
ATOM	4119	CE1	PHE	C	78	43.483	86.476	-3.965	1.00	98.77	C
ATOM	4120	CE2	PHE	C	78	41.526	85.234	-3.328	1.00	98.77	C
ATOM	4121	CZ	PHE	C	78	42.728	85.310	-4.018	1.00	98.77	C
ATOM	4122	C	PHE	C	78	39.607	90.303	-1.473	1.00	58.09	C
ATOM	4123	O	PHE	C	78	39.590	91.533	-1.366	1.00	58.09	C
ATOM	4124	N	SER	C	79	38.828	89.489	-0.763	1.00	60.18	C
ATOM	4125	CA	SER	C	79	37.869	89.992	0.207	1.00	60.18	C
ATOM	4126	CB	SER	C	79	36.446	89.566	-0.171	1.00	100.07	C
ATOM	4127	OG	SER	C	79	36.154	88.258	0.298	1.00	100.07	C
ATOM	4128	C	SER	C	79	38.130	89.512	1.619	1.00	60.18	C
ATOM	4129	O	SER	C	79	38.856	88.550	1.843	1.00	60.18	C
ATOM	4130	N	GLN	C	80	37.517	90.209	2.567	1.00	78.53	C
ATOM	4131	CA	GLN	C	80	37.615	89.851	3.962	1.00	78.53	C
ATOM	4132	CB	GLN	C	80	36.744	90.789	4.805	1.00	100.07	C
ATOM	4133	CG	GLN	C	80	35.437	91.250	4.115	1.00	100.07	C
ATOM	4134	CD	GLN	C	80	34.297	91.448	5.105	1.00	100.07	C
ATOM	4135	OE1	GLN	C	80	34.394	92.274	6.017	1.00	100.07	C
ATOM	4136	NE2	GLN	C	80	33.215	90.678	4.937	1.00	100.07	C
ATOM	4137	C	GLN	C	80	37.117	88.408	4.078	1.00	78.53	C
ATOM	4138	O	GLN	C	80	36.103	88.057	3.489	1.00	78.53	C
ATOM	4139	N	ASP	C	81	37.848	87.597	4.838	1.00	87.72	C
ATOM	4140	CA	ASP	C	81	37.545	86.181	5.067	1.00	87.72	C
ATOM	4141	CB	ASP	C	81	36.031	85.894	5.051	1.00	100.07	C
ATOM	4142	CG	ASP	C	81	35.464	85.571	6.445	1.00	100.07	C
ATOM	4143	OD1	ASP	C	81	34.766	86.436	7.028	1.00	100.07	C
ATOM	4144	OD2	ASP	C	81	35.716	84.461	6.962	1.00	100.07	C
ATOM	4145	C	ASP	C	81	38.255	85.294	4.057	1.00	87.72	C
ATOM	4146	O	ASP	C	81	38.748	84.229	4.416	1.00	87.72	C
ATOM	4147	N	GLU	C	82	38.292	85.718	2.794	1.00	77.33	C
ATOM	4148	CA	GLU	C	82	39.032	84.953	1.787	1.00	77.33	C
ATOM	4149	CB	GLU	C	82	38.857	85.492	0.365	1.00	100.07	C
ATOM	4150	CG	GLU	C	82	37.467	85.559	-0.184	1.00	100.07	C
ATOM	4151	CD	GLU	C	82	37.465	86.160	-1.571	1.00	100.07	C
ATOM	4152	OE1	GLU	C	82	38.085	87.235	-1.743	1.00	100.07	C
ATOM	4153	OE2	GLU	C	82	36.845	85.559	-2.480	1.00	100.07	C
ATOM	4154	C	GLU	C	82	40.428	85.312	2.203	1.00	77.33	C
ATOM	4155	O	GLU	C	82	41.351	84.507	2.124	1.00	77.33	C
ATOM	4156	N	CYS	C	83	40.556	86.561	2.637	1.00	33.66	C
ATOM	4157	CA	CYS	C	83	41.819	87.108	3.081	1.00	33.66	C
ATOM	4158	CB	CYS	C	83	41.656	88.559	3.479	1.00	42.30	C
ATOM	4159	SG	CYS	C	83	42.498	89.654	2.355	1.00	42.30	C
ATOM	4160	C	CYS	C	83	42.335	86.335	4.253	1.00	33.66	C
ATOM	4161	O	CYS	C	83	43.341	85.642	4.145	1.00	33.66	C
ATOM	4162	N	ARG	C	84	41.645	86.438	5.382	1.00	40.55	C

ATOM	4163	CA	ARG	C	84	42.079	85.720	6.580	1.00	40.55	C
ATOM	4164	CB	ARG	C	84	41.086	85.954	7.715	1.00	60.20	C
ATOM	4165	CG	ARG	C	84	40.630	87.404	7.827	1.00	60.20	C
ATOM	4166	CD	ARG	C	84	39.392	87.509	8.709	1.00	60.20	C
ATOM	4167	NE	ARG	C	84	38.602	88.714	8.456	1.00	60.20	C
ATOM	4168	CZ	ARG	C	84	37.357	88.888	8.890	1.00	60.20	C
ATOM	4169	NH1	ARG	C	84	36.762	87.933	9.597	1.00	60.20	C
ATOM	4170	NH2	ARG	C	84	36.705	90.008	8.609	1.00	60.20	C
ATOM	4171	C	ARG	C	84	42.205	84.224	6.288	1.00	40.55	C
ATOM	4172	O	ARG	C	84	43.157	83.579	6.717	1.00	40.55	C
ATOM	4173	N	GLU	C	85	41.249	83.684	5.539	1.00	54.53	C
ATOM	4174	CA	GLU	C	85	41.271	82.268	5.205	1.00	54.53	C
ATOM	4175	CB	GLU	C	85	40.133	81.925	4.241	1.00	100.07	C
ATOM	4176	CG	GLU	C	85	39.920	80.430	4.047	1.00	100.07	C
ATOM	4177	CD	GLU	C	85	38.512	80.088	3.584	1.00	100.07	C
ATOM	4178	OE1	GLU	C	85	38.111	80.537	2.485	1.00	100.07	C
ATOM	4179	OE2	GLU	C	85	37.801	79.367	4.327	1.00	100.07	C
ATOM	4180	C	GLU	C	85	42.606	81.896	4.587	1.00	54.53	C
ATOM	4181	O	GLU	C	85	43.318	81.043	5.111	1.00	54.53	C
ATOM	4182	N	LYS	C	86	42.947	82.563	3.488	1.00	65.18	C
ATOM	4183	CA	LYS	C	86	44.186	82.301	2.773	1.00	65.18	C
ATOM	4184	CB	LYS	C	86	43.964	82.518	1.274	1.00	100.07	C
ATOM	4185	CG	LYS	C	86	43.028	81.487	0.660	1.00	100.07	C
ATOM	4186	CD	LYS	C	86	42.558	81.876	-0.726	1.00	100.07	C
ATOM	4187	CE	LYS	C	86	41.580	80.846	-1.281	1.00	100.07	C
ATOM	4188	NZ	LYS	C	86	40.652	81.452	-2.278	1.00	100.07	C
ATOM	4189	C	LYS	C	86	45.317	83.187	3.259	1.00	65.18	C
ATOM	4190	O	LYS	C	86	46.149	83.611	2.470	1.00	65.18	C
ATOM	4191	N	ASP	C	87	45.359	83.452	4.560	1.00	100.07	C
ATOM	4192	CA	ASP	C	87	46.399	84.302	5.129	1.00	100.07	C
ATOM	4193	CB	ASP	C	87	47.588	83.475	5.619	1.00	70.60	C
ATOM	4194	CG	ASP	C	87	47.361	82.870	6.997	1.00	70.60	C
ATOM	4195	OD1	ASP	C	87	46.695	83.499	7.841	1.00	70.60	C
ATOM	4196	OD2	ASP	C	87	47.874	81.766	7.254	1.00	70.60	C
ATOM	4197	C	ASP	C	87	46.897	85.329	4.132	1.00	100.07	C
ATOM	4198	O	ASP	C	87	48.034	85.261	3.682	1.00	100.07	C
ATOM	4199	N	LEU	C	88	46.035	86.271	3.778	1.00	100.04	C
ATOM	4200	CA	LEU	C	88	46.408	87.329	2.854	1.00	100.04	C
ATOM	4201	CB	LEU	C	88	45.838	87.060	1.458	1.00	94.76	C
ATOM	4202	CG	LEU	C	88	46.548	85.963	0.653	1.00	94.76	C
ATOM	4203	CD1	LEU	C	88	46.111	86.008	-0.807	1.00	94.76	C
ATOM	4204	CD2	LEU	C	88	48.045	86.167	0.729	1.00	94.76	C
ATOM	4205	C	LEU	C	88	45.891	88.665	3.374	1.00	100.04	C
ATOM	4206	O	LEU	C	88	44.699	88.811	3.631	1.00	100.04	C
ATOM	4207	N	THR	C	89	46.794	89.626	3.548	1.00	71.47	C
ATOM	4208	CA	THR	C	89	46.444	90.958	4.042	1.00	71.47	C
ATOM	4209	CB	THR	C	89	47.664	91.895	3.980	1.00	100.07	C
ATOM	4210	OG1	THR	C	89	48.741	91.340	4.752	1.00	100.07	C
ATOM	4211	CG2	THR	C	89	47.314	93.242	4.547	1.00	100.07	C
ATOM	4212	C	THR	C	89	45.309	91.572	3.217	1.00	71.47	C
ATOM	4213	O	THR	C	89	45.170	91.264	2.035	1.00	71.47	C
ATOM	4214	N	TYR	C	90	44.509	92.440	3.826	1.00	76.50	C
ATOM	4215	CA	TYR	C	90	43.387	93.050	3.117	1.00	76.50	C
ATOM	4216	CB	TYR	C	90	42.228	93.284	4.074	1.00	99.63	C
ATOM	4217	CG	TYR	C	90	40.981	93.806	3.406	1.00	99.63	C
ATOM	4218	CD1	TYR	C	90	40.580	93.323	2.163	1.00	99.63	C
ATOM	4219	CE1	TYR	C	90	39.449	93.803	1.555	1.00	99.63	C
ATOM	4220	CD2	TYR	C	90	40.204	94.786	4.013	1.00	99.63	C
ATOM	4221	CE2	TYR	C	90	39.062	95.269	3.403	1.00	99.63	C
ATOM	4222	CZ	TYR	C	90	38.699	94.776	2.171	1.00	99.63	C
ATOM	4223	OH	TYR	C	90	37.596	95.283	1.532	1.00	99.63	C
ATOM	4224	C	TYR	C	90	43.779	94.361	2.458	1.00	76.50	C
ATOM	4225	O	TYR	C	90	43.243	95.411	2.797	1.00	76.50	C
ATOM	4226	N	GLN	C	91	44.698	94.282	1.523	1.00	31.86	C
ATOM	4227	CA	GLN	C	91	45.180	95.451	0.793	1.00	31.86	C
ATOM	4228	CB	GLN	C	91	46.666	95.294	0.493	1.00	100.07	C
ATOM	4229	CG	GLN	C	91	47.560	95.167	1.722	1.00	100.07	C
ATOM	4230	CD	GLN	C	91	48.954	94.690	1.372	1.00	100.07	C
ATOM	4231	OE1	GLN	C	91	49.097	93.788	0.548	1.00	100.07	C
ATOM	4232	NE2	GLN	C	91	49.979	95.265	2.000	1.00	100.07	C
ATOM	4233	C	GLN	C	91	44.443	95.672	-0.535	1.00	31.86	C
ATOM	4234	O	GLN	C	91	43.605	94.859	-0.943	1.00	31.86	C
ATOM	4235	N	ALA	C	92	44.763	96.766	-1.193	1.00	44.62	C
ATOM	4236	CA	ALA	C	92	44.155	97.116	-2.482	1.00	44.62	C
ATOM	4237	CB	ALA	C	92	42.937	97.984	-2.259	1.00	77.59	C
ATOM	4238	C	ALA	C	92	45.176	97.864	-3.331	1.00	44.62	C
ATOM	4239	O	ALA	C	92	45.713	98.879	-2.933	1.00	44.62	C
ATOM	4240	N	PRO	C	93	45.445	97.360	-4.531	1.00	71.69	C
ATOM	4241	CD	PRO	C	93	44.722	96.322	-5.271	1.00	83.08	C
ATOM	4242	CA	PRO	C	93	46.426	98.053	-5.370	1.00	71.69	C
ATOM	4243	CB	PRO	C	93	46.297	97.338	-6.709	1.00	83.08	C
ATOM	4244	CG	PRO	C	93	44.880	96.804	-6.673	1.00	83.08	C
ATOM	4245	C	PRO	C	93	46.229	99.558	-5.498	1.00	71.69	C
ATOM	4246	O	PRO	C	93	45.096	100.046	-5.586	1.00	71.69	C

ATOM	4247	N	LEU	C	94	47.335	100.295	-5.501	1.00	46.46	C
ATOM	4248	CA	LEU	C	94	47.299	101.746	-5.644	1.00	46.46	C
ATOM	4249	CB	LEU	C	94	47.569	102.450	-4.301	1.00	100.07	C
ATOM	4250	CG	LEU	C	94	47.791	103.983	-4.362	1.00	100.07	C
ATOM	4251	CD1	LEU	C	94	46.785	104.634	-5.345	1.00	100.07	C
ATOM	4252	CD2	LEU	C	94	47.710	104.596	-2.953	1.00	100.07	C
ATOM	4253	C	LEU	C	94	48.333	102.204	-6.653	1.00	46.46	C
ATOM	4254	O	LEU	C	94	49.527	102.007	-6.444	1.00	46.46	C
ATOM	4255	N	TYR	C	95	47.875	102.814	-7.738	1.00	38.72	C
ATOM	4256	CA	TYR	C	95	48.785	103.327	-8.755	1.00	38.72	C
ATOM	4257	CB	TYR	C	95	48.677	102.477	-10.034	1.00	99.71	C
ATOM	4258	CG	TYR	C	95	47.277	102.114	-10.492	1.00	99.71	C
ATOM	4259	CD1	TYR	C	95	46.387	103.090	-10.940	1.00	99.71	C
ATOM	4260	CE1	TYR	C	95	45.122	102.750	-11.458	1.00	99.71	C
ATOM	4261	CD2	TYR	C	95	46.870	100.784	-10.557	1.00	99.71	C
ATOM	4262	CE2	TYR	C	95	45.613	100.432	-11.071	1.00	99.71	C
ATOM	4263	CZ	TYR	C	95	44.746	101.421	-11.526	1.00	99.71	C
ATOM	4264	OH	TYR	C	95	43.531	101.094	-12.096	1.00	99.71	C
ATOM	4265	C	TYR	C	95	48.472	104.817	-9.027	1.00	38.72	C
ATOM	4266	O	TYR	C	95	47.469	105.347	-8.527	1.00	38.72	C
ATOM	4267	N	ALA	C	96	49.335	105.497	-9.785	1.00	49.87	C
ATOM	4268	CA	ALA	C	96	49.115	106.910	-10.109	1.00	49.87	C
ATOM	4269	CB	ALA	C	96	49.384	107.775	-8.892	1.00	87.08	C
ATOM	4270	C	ALA	C	96	49.998	107.360	-11.276	1.00	49.87	C
ATOM	4271	O	ALA	C	96	51.215	107.232	-11.198	1.00	49.87	C
ATOM	4272	N	ARG	C	97	49.390	107.895	-12.339	1.00	37.17	C
ATOM	4273	CA	ARG	C	97	50.116	108.347	-13.539	1.00	37.17	C
ATOM	4274	CB	ARG	C	97	49.146	108.899	-14.587	1.00	100.07	C
ATOM	4275	CG	ARG	C	97	48.033	107.979	-15.033	1.00	100.07	C
ATOM	4276	CD	ARG	C	97	47.021	108.749	-15.880	1.00	100.07	C
ATOM	4277	NE	ARG	C	97	45.816	107.967	-16.137	1.00	100.07	C
ATOM	4278	CZ	ARG	C	97	44.762	108.405	-16.820	1.00	100.07	C
ATOM	4279	NH1	ARG	C	97	44.754	109.633	-17.327	1.00	100.07	C
ATOM	4280	NH2	ARG	C	97	43.712	107.610	-16.994	1.00	100.07	C
ATOM	4281	C	ARG	C	97	51.139	109.440	-13.270	1.00	37.17	C
ATOM	4282	O	ARG	C	97	50.789	110.494	-12.749	1.00	37.17	C
ATOM	4283	N	LEU	C	98	52.390	109.200	-13.656	1.00	70.64	C
ATOM	4284	CA	LEU	C	98	53.468	110.172	-13.472	1.00	70.64	C
ATOM	4285	CB	LEU	C	98	54.628	109.533	-12.708	1.00	99.56	C
ATOM	4286	CG	LEU	C	98	54.248	108.906	-11.363	1.00	99.56	C
ATOM	4287	CD1	LEU	C	98	55.483	108.366	-10.655	1.00	99.56	C
ATOM	4288	CD2	LEU	C	98	53.566	109.951	-10.503	1.00	99.56	C
ATOM	4289	C	LEU	C	98	53.927	110.598	-14.860	1.00	70.64	C
ATOM	4290	O	LEU	C	98	53.318	110.195	-15.847	1.00	70.64	C
ATOM	4291	N	GLN	C	99	54.994	111.390	-14.952	1.00	48.44	C
ATOM	4292	CA	GLN	C	99	55.470	111.848	-16.261	1.00	48.44	C
ATOM	4293	CB	GLN	C	99	54.624	113.013	-16.761	1.00	99.92	C
ATOM	4294	CG	GLN	C	99	53.177	112.716	-16.978	1.00	99.92	C
ATOM	4295	CD	GLN	C	99	52.391	113.959	-17.330	1.00	99.92	C
ATOM	4296	OE1	GLN	C	99	52.616	114.573	-18.373	1.00	99.92	C
ATOM	4297	NE2	GLN	C	99	51.460	114.341	-16.458	1.00	99.92	C
ATOM	4298	C	GLN	C	99	56.906	112.329	-16.282	1.00	48.44	C
ATOM	4299	O	GLN	C	99	57.297	113.132	-15.440	1.00	48.44	C
ATOM	4300	N	LEU	C	100	57.692	111.864	-17.247	1.00	56.30	C
ATOM	4301	CA	LEU	C	100	59.062	112.349	-17.359	1.00	56.30	C
ATOM	4302	CB	LEU	C	100	59.944	111.394	-18.142	1.00	97.08	C
ATOM	4303	CG	LEU	C	100	59.726	109.908	-17.952	1.00	97.08	C
ATOM	4304	CD1	LEU	C	100	59.622	109.289	-19.323	1.00	97.08	C
ATOM	4305	CD2	LEU	C	100	60.856	109.297	-17.144	1.00	97.08	C
ATOM	4306	C	LEU	C	100	58.909	113.606	-18.188	1.00	56.30	C
ATOM	4307	O	LEU	C	100	57.952	113.741	-18.951	1.00	56.30	C
ATOM	4308	N	ILE	C	101	59.842	114.530	-18.054	1.00	99.85	C
ATOM	4309	CA	ILE	C	101	59.772	115.747	-18.829	1.00	99.85	C
ATOM	4310	CB	ILE	C	101	59.283	116.908	-17.950	1.00	100.07	C
ATOM	4311	CG2	ILE	C	101	59.308	118.217	-18.735	1.00	100.07	C
ATOM	4312	CG1	ILE	C	101	57.860	116.578	-17.460	1.00	100.07	C
ATOM	4313	CD	ILE	C	101	57.155	117.678	-16.675	1.00	100.07	C
ATOM	4314	C	ILE	C	101	61.176	115.948	-19.362	1.00	99.85	C
ATOM	4315	O	ILE	C	101	62.139	115.500	-18.740	1.00	99.85	C
ATOM	4316	N	HIS	C	102	61.299	116.579	-20.523	1.00	77.59	C
ATOM	4317	CA	HIS	C	102	62.614	116.754	-21.123	1.00	77.59	C
ATOM	4318	CB	HIS	C	102	62.802	115.728	-22.235	1.00	100.07	C
ATOM	4319	CG	HIS	C	102	62.959	114.319	-21.750	1.00	100.07	C
ATOM	4320	CD2	HIS	C	102	63.493	113.821	-20.608	1.00	100.07	C
ATOM	4321	ND1	HIS	C	102	62.602	113.227	-22.515	1.00	100.07	C
ATOM	4322	CE1	HIS	C	102	62.914	112.119	-21.867	1.00	100.07	C
ATOM	4323	NE2	HIS	C	102	63.455	112.447	-20.714	1.00	100.07	C
ATOM	4324	C	HIS	C	102	62.939	118.128	-21.678	1.00	77.59	C
ATOM	4325	O	HIS	C	102	62.096	119.024	-21.743	1.00	77.59	C
ATOM	4326	N	LYS	C	103	64.203	118.257	-22.071	1.00	100.07	C
ATOM	4327	CA	LYS	C	103	64.743	119.474	-22.658	1.00	100.07	C
ATOM	4328	CB	LYS	C	103	66.151	119.759	-22.120	1.00	100.07	C
ATOM	4329	CG	LYS	C	103	66.675	121.111	-22.547	1.00	100.07	C
ATOM	4330	CD	LYS	C	103	65.645	122.170	-22.196	1.00	100.07	C

ATOM	4331	CE	LYS	C	103	66.091	123.545	-22.632	1.00100.07	C
ATOM	4332	NZ	LYS	C	103	65.001	124.542	-22.380	1.00100.07	C
ATOM	4333	C	LYS	C	103	64.825	119.269	-24.160	1.00100.07	C
ATOM	4334	O	LYS	C	103	65.009	120.214	-24.925	1.00100.07	C
ATOM	4335	N	ASP	C	104	64.708	118.003	-24.555	1.00 67.51	C
ATOM	4336	CA	ASP	C	104	64.742	117.584	-25.943	1.00 67.51	C
ATOM	4337	CB	ASP	C	104	65.471	116.239	-26.057	1.00100.07	C
ATOM	4338	CG	ASP	C	104	65.095	115.273	-24.945	1.00100.07	C
ATOM	4339	OD1	ASP	C	104	65.371	115.584	-23.762	1.00100.07	C
ATOM	4340	OD2	ASP	C	104	64.526	114.207	-25.258	1.00100.07	C
ATOM	4341	C	ASP	C	104	63.296	117.457	-26.389	1.00 67.51	C
ATOM	4342	O	ASP	C	104	62.995	116.842	-27.408	1.00 67.51	C
ATOM	4343	N	THR	C	105	62.398	118.065	-25.624	1.00100.07	C
ATOM	4344	CA	THR	C	105	60.978	117.999	-25.942	1.00100.07	C
ATOM	4345	CB	THR	C	105	60.687	118.617	-27.355	1.00100.07	C
ATOM	4346	OG1	THR	C	105	60.778	120.047	-27.268	1.00100.07	C
ATOM	4347	CG2	THR	C	105	59.297	118.238	-27.859	1.00100.07	C
ATOM	4348	C	THR	C	105	60.531	116.526	-25.867	1.00100.07	C
ATOM	4349	O	THR	C	105	60.421	115.833	-26.885	1.00100.07	C
ATOM	4350	N	GLY	C	106	60.307	116.058	-24.639	1.00 91.69	C
ATOM	4351	CA	GLY	C	106	59.873	114.694	-24.395	1.00 91.69	C
ATOM	4352	C	GLY	C	106	58.988	114.721	-23.168	1.00 91.69	C
ATOM	4353	O	GLY	C	106	59.471	114.980	-22.067	1.00 91.69	C
ATOM	4354	N	LEU	C	107	57.695	114.467	-23.359	1.00 83.98	C
ATOM	4355	CA	LEU	C	107	56.726	114.468	-22.264	1.00 83.98	C
ATOM	4356	CB	LEU	C	107	55.796	115.661	-22.419	1.00100.07	C
ATOM	4357	CG	LEU	C	107	56.562	116.956	-22.681	1.00100.07	C
ATOM	4358	CD1	LEU	C	107	55.603	118.031	-23.146	1.00100.07	C
ATOM	4359	CD2	LEU	C	107	57.319	117.376	-21.420	1.00100.07	C
ATOM	4360	C	LEU	C	107	55.891	113.188	-22.215	1.00 83.98	C
ATOM	4361	O	LEU	C	107	54.809	113.134	-22.795	1.00 83.98	C
ATOM	4362	N	ILE	C	108	56.389	112.174	-21.508	1.00 99.90	C
ATOM	4363	CA	ILE	C	108	55.699	110.890	-21.392	1.00 99.90	C
ATOM	4364	CB	ILE	C	108	56.715	109.716	-21.334	1.00 98.56	C
ATOM	4365	CG2	ILE	C	108	55.985	108.389	-21.242	1.00 98.56	C
ATOM	4366	CG1	ILE	C	108	57.624	109.731	-22.568	1.00 98.56	C
ATOM	4367	CD	ILE	C	108	58.798	110.695	-22.462	1.00100.07	C
ATOM	4368	C	ILE	C	108	54.769	110.761	-20.173	1.00 99.90	C
ATOM	4369	O	ILE	C	108	54.928	111.461	-19.166	1.00 99.90	C
ATOM	4370	N	LYS	C	109	53.798	109.851	-20.291	1.00 83.23	C
ATOM	4371	CA	LYS	C	109	52.824	109.545	-19.237	1.00 83.23	C
ATOM	4372	CB	LYS	C	109	51.456	110.164	-19.541	1.00 63.06	C
ATOM	4373	CG	LYS	C	109	51.423	111.668	-19.522	1.00 63.06	C
ATOM	4374	CD	LYS	C	109	50.018	112.171	-19.298	1.00 63.06	C
ATOM	4375	CE	LYS	C	109	49.999	113.681	-19.374	1.00 63.06	C
ATOM	4376	NZ	LYS	C	109	48.740	114.222	-18.831	1.00 63.06	C
ATOM	4377	C	LYS	C	109	52.652	108.029	-19.143	1.00 83.23	C
ATOM	4378	O	LYS	C	109	52.062	107.411	-20.031	1.00 83.23	C
ATOM	4379	N	GLU	C	110	53.165	107.427	-18.077	1.00 77.31	C
ATOM	4380	CA	GLU	C	110	53.030	105.989	-17.918	1.00 77.31	C
ATOM	4381	CB	GLU	C	110	54.172	105.414	-17.089	1.00100.07	C
ATOM	4382	CG	GLU	C	110	55.357	105.003	-17.924	1.00100.07	C
ATOM	4383	CD	GLU	C	110	55.059	103.793	-18.771	1.00100.07	C
ATOM	4384	OE1	GLU	C	110	54.516	102.810	-18.216	1.00100.07	C
ATOM	4385	OE2	GLU	C	110	55.368	103.820	-19.984	1.00100.07	C
ATOM	4386	C	GLU	C	110	51.710	105.629	-17.285	1.00 77.31	C
ATOM	4387	O	GLU	C	110	51.303	106.202	-16.269	1.00 77.31	C
ATOM	4388	N	ASP	C	111	51.052	104.662	-17.902	1.00100.07	C
ATOM	4389	CA	ASP	C	111	49.759	104.205	-17.433	1.00100.07	C
ATOM	4390	CB	ASP	C	111	49.245	103.058	-18.298	1.00100.07	C
ATOM	4391	CG	ASP	C	111	48.849	103.516	-19.679	1.00100.07	C
ATOM	4392	OD1	ASP	C	111	48.002	104.435	-19.768	1.00100.07	C
ATOM	4393	OD2	ASP	C	111	49.382	102.961	-20.665	1.00100.07	C
ATOM	4394	C	ASP	C	111	49.703	103.773	-15.984	1.00100.07	C
ATOM	4395	O	ASP	C	111	50.098	102.661	-15.635	1.00100.07	C
ATOM	4396	N	GLU	C	112	49.193	104.673	-15.155	1.00 60.24	C
ATOM	4397	CA	GLU	C	112	49.015	104.385	-13.757	1.00 60.24	C
ATOM	4398	CB	GLU	C	112	48.143	103.135	-13.599	1.00100.07	C
ATOM	4399	CG	GLU	C	112	46.899	103.094	-14.486	1.00100.07	C
ATOM	4400	CD	GLU	C	112	45.965	104.272	-14.275	1.00100.07	C
ATOM	4401	OE1	GLU	C	112	46.219	105.068	-13.347	1.00100.07	C
ATOM	4402	OE2	GLU	C	112	44.974	104.396	-15.030	1.00100.07	C
ATOM	4403	C	GLU	C	112	50.340	104.145	-13.080	1.00 60.24	C
ATOM	4404	O	GLU	C	112	50.612	104.731	-12.038	1.00 60.24	C
ATOM	4405	N	VAL	C	113	51.159	103.280	-13.661	1.00 82.31	C
ATOM	4406	CA	VAL	C	113	52.428	102.960	-13.046	1.00 82.31	C
ATOM	4407	CB	VAL	C	113	53.241	104.206	-12.822	1.00100.07	C
ATOM	4408	CG1	VAL	C	113	54.650	103.836	-12.419	1.00100.07	C
ATOM	4409	CG2	VAL	C	113	53.204	105.051	-14.067	1.00100.07	C
ATOM	4410	C	VAL	C	113	52.007	102.384	-11.702	1.00 82.31	C
ATOM	4411	O	VAL	C	113	52.154	103.006	-10.645	1.00 82.31	C
ATOM	4412	N	PHE	C	114	51.436	101.192	-11.770	1.00 52.03	C
ATOM	4413	CA	PHE	C	114	50.933	100.486	-10.606	1.00 52.03	C
ATOM	4414	CB	PHE	C	114	50.599	99.042	-11.019	1.00100.07	C

ATOM	4415	CG	PHE	C	114	49.751	98.951	-12.287	1.00100.07	C
ATOM	4416	CD1	PHE	C	114	50.295	99.269	-13.538	1.00100.07	C
ATOM	4417	CD2	PHE	C	114	48.401	98.590	-12.224	1.00100.07	C
ATOM	4418	CE1	PHE	C	114	49.507	99.236	-14.706	1.00100.07	C
ATOM	4419	CE2	PHE	C	114	47.607	98.556	-13.391	1.00100.07	C
ATOM	4420	CZ	PHE	C	114	48.165	98.879	-14.629	1.00100.07	C
ATOM	4421	C	PHE	C	114	51.935	100.561	-9.454	1.00 52.03	C
ATOM	4422	O	PHE	C	114	53.125	100.791	-9.664	1.00 52.03	C
ATOM	4423	N	LEU	C	115	51.456	100.380	-8.233	1.00 99.90	C
ATOM	4424	CA	LEU	C	115	52.350	100.469	-7.096	1.00 99.90	C
ATOM	4425	CB	LEU	C	115	52.359	101.915	-6.594	1.00100.07	C
ATOM	4426	CG	LEU	C	115	53.452	102.402	-5.645	1.00100.07	C
ATOM	4427	CD1	LEU	C	115	54.793	101.762	-5.993	1.00100.07	C
ATOM	4428	CD2	LEU	C	115	53.526	103.917	-5.746	1.00100.07	C
ATOM	4429	C	LEU	C	115	52.000	99.514	-5.964	1.00 99.90	C
ATOM	4430	O	LEU	C	115	51.373	98.468	-6.172	1.00 99.90	C
ATOM	4431	N	GLY	C	116	52.433	99.890	-4.765	1.00 61.19	C
ATOM	4432	CA	GLY	C	116	52.197	99.086	-3.590	1.00 61.19	C
ATOM	4433	C	GLY	C	116	50.750	98.997	-3.178	1.00 61.19	C
ATOM	4434	O	GLY	C	116	49.893	99.733	-3.664	1.00 61.19	C
ATOM	4435	N	HIS	C	117	50.490	98.067	-2.268	1.00 50.40	C
ATOM	4436	CA	HIS	C	117	49.157	97.833	-1.737	1.00 50.40	C
ATOM	4437	CB	HIS	C	117	48.960	96.340	-1.472	1.00 99.90	C
ATOM	4438	CG	HIS	C	117	48.949	95.495	-2.706	1.00 99.90	C
ATOM	4439	CD2	HIS	C	117	49.883	94.670	-3.234	1.00 99.90	C
ATOM	4440	ND1	HIS	C	117	47.847	95.402	-3.534	1.00 99.90	C
ATOM	4441	CE1	HIS	C	117	48.108	94.551	-4.514	1.00 99.90	C
ATOM	4442	NE2	HIS	C	117	49.336	94.096	-4.353	1.00 99.90	C
ATOM	4443	C	HIS	C	117	49.001	98.600	-0.418	1.00 50.40	C
ATOM	4444	O	HIS	C	117	49.831	98.475	0.482	1.00 50.40	C
ATOM	4445	N	LEU	C	118	47.932	99.383	-0.308	1.00 44.36	C
ATOM	4446	CA	LEU	C	118	47.687	100.162	0.898	1.00 44.36	C
ATOM	4447	CB	LEU	C	118	47.320	101.600	0.529	1.00100.07	C
ATOM	4448	CG	LEU	C	118	47.573	102.670	1.592	1.00100.07	C
ATOM	4449	CD1	LEU	C	118	46.828	103.957	1.238	1.00100.07	C
ATOM	4450	CD2	LEU	C	118	47.106	102.159	2.922	1.00100.07	C
ATOM	4451	C	LEU	C	118	46.537	99.527	1.659	1.00 44.36	C
ATOM	4452	O	LEU	C	118	45.391	99.674	1.260	1.00 44.36	C
ATOM	4453	N	PRO	C	119	46.836	98.832	2.771	1.00 33.57	C
ATOM	4454	CD	PRO	C	119	48.155	98.733	3.398	1.00100.07	C
ATOM	4455	CA	PRO	C	119	45.815	98.161	3.609	1.00 33.57	C
ATOM	4456	CB	PRO	C	119	46.560	97.900	4.925	1.00100.07	C
ATOM	4457	CG	PRO	C	119	47.805	98.748	4.853	1.00100.07	C
ATOM	4458	C	PRO	C	119	44.476	98.877	3.812	1.00 33.57	C
ATOM	4459	O	PRO	C	119	44.404	100.014	4.272	1.00 33.57	C
ATOM	4460	N	LEU	C	120	43.403	98.179	3.460	1.00 48.29	C
ATOM	4461	CA	LEU	C	120	42.067	98.726	3.572	1.00 48.29	C
ATOM	4462	CB	LEU	C	120	41.163	98.034	2.563	1.00100.07	C
ATOM	4463	CG	LEU	C	120	41.822	98.110	1.183	1.00100.07	C
ATOM	4464	CD1	LEU	C	120	41.022	97.315	0.181	1.00100.07	C
ATOM	4465	CD2	LEU	C	120	41.940	99.561	0.745	1.00100.07	C
ATOM	4466	C	LEU	C	120	41.599	98.497	4.980	1.00 48.29	C
ATOM	4467	O	LEU	C	120	42.148	97.645	5.672	1.00 48.29	C
ATOM	4468	N	MET	C	121	40.609	99.277	5.407	1.00 38.60	C
ATOM	4469	CA	MET	C	121	40.074	99.175	6.757	1.00 38.60	C
ATOM	4470	CB	MET	C	121	40.019	100.551	7.423	1.00 99.86	C
ATOM	4471	CG	MET	C	121	39.742	100.513	8.924	1.00 99.86	C
ATOM	4472	SD	MET	C	121	39.254	102.116	9.631	1.00 99.86	C
ATOM	4473	CE	MET	C	121	40.791	103.008	9.614	1.00 99.86	C
ATOM	4474	C	MET	C	121	38.681	98.605	6.675	1.00 38.60	C
ATOM	4475	O	MET	C	121	37.857	99.072	5.894	1.00 38.60	C
ATOM	4476	N	THR	C	122	38.418	97.582	7.475	1.00 51.97	C
ATOM	4477	CA	THR	C	122	37.107	96.977	7.472	1.00 51.97	C
ATOM	4478	CB	THR	C	122	37.073	95.780	8.410	1.00 98.89	C
ATOM	4479	OG1	THR	C	122	35.866	95.042	8.200	1.00 98.89	C
ATOM	4480	CG2	THR	C	122	37.143	96.235	9.844	1.00 98.89	C
ATOM	4481	C	THR	C	122	36.170	98.071	7.964	1.00 51.97	C
ATOM	4482	O	THR	C	122	36.554	99.232	7.991	1.00 51.97	C
ATOM	4483	N	GLU	C	123	34.952	97.722	8.359	1.00 43.02	C
ATOM	4484	CA	GLU	C	123	34.006	98.729	8.841	1.00 43.02	C
ATOM	4485	CB	GLU	C	123	32.602	98.148	8.913	1.00100.07	C
ATOM	4486	CG	GLU	C	123	32.119	97.584	7.611	1.00100.07	C
ATOM	4487	CD	GLU	C	123	32.953	96.407	7.159	1.00100.07	C
ATOM	4488	OE1	GLU	C	123	32.957	95.369	7.863	1.00100.07	C
ATOM	4489	OE2	GLU	C	123	33.613	96.528	6.107	1.00100.07	C
ATOM	4490	C	GLU	C	123	34.373	99.258	10.217	1.00 43.02	C
ATOM	4491	O	GLU	C	123	33.592	99.969	10.834	1.00 43.02	C
ATOM	4492	N	ASP	C	124	35.558	98.900	10.696	1.00100.07	C
ATOM	4493	CA	ASP	C	124	36.023	99.326	12.008	1.00100.07	C
ATOM	4494	CB	ASP	C	124	35.333	98.487	13.093	1.00100.07	C
ATOM	4495	CG	ASP	C	124	34.916	97.114	12.597	1.00100.07	C
ATOM	4496	OD1	ASP	C	124	34.106	97.044	11.650	1.00100.07	C
ATOM	4497	OD2	ASP	C	124	35.391	96.101	13.153	1.00100.07	C
ATOM	4498	C	ASP	C	124	37.553	99.255	12.164	1.00100.07	C

ATOM	4499	O	ASP	C	124	38.246	100.268	12.042	1.00100.07	C
ATOM	4500	N	GLY	C	125	38.082	98.064	12.434	1.00100.06	C
ATOM	4501	CA	GLY	C	125	39.519	97.916	12.599	1.00100.06	C
ATOM	4502	C	GLY	C	125	40.209	97.514	11.310	1.00100.06	C
ATOM	4503	O	GLY	C	125	39.708	97.784	10.221	1.00100.06	C
ATOM	4504	N	SER	C	126	41.356	96.856	11.426	1.00 42.10	C
ATOM	4505	CA	SER	C	126	42.125	96.434	10.255	1.00 42.10	C
ATOM	4506	CB	SER	C	126	43.470	97.167	10.226	1.00 16.52	C
ATOM	4507	OG	SER	C	126	43.449	98.352	9.437	1.00 16.52	C
ATOM	4508	C	SER	C	126	42.388	94.931	10.253	1.00 42.10	C
ATOM	4509	O	SER	C	126	43.047	94.420	11.157	1.00 42.10	C
ATOM	4510	N	PHE	C	127	41.875	94.232	9.237	1.00 43.59	C
ATOM	4511	CA	PHE	C	127	42.066	92.779	9.092	1.00 43.59	C
ATOM	4512	CB	PHE	C	127	40.895	92.134	8.329	1.00100.07	C
ATOM	4513	CG	PHE	C	127	39.595	92.076	9.114	1.00100.07	C
ATOM	4514	CD1	PHE	C	127	38.522	92.902	8.783	1.00100.07	C
ATOM	4515	CD2	PHE	C	127	39.441	91.192	10.184	1.00100.07	C
ATOM	4516	CE1	PHE	C	127	37.318	92.848	9.505	1.00100.07	C
ATOM	4517	CE2	PHE	C	127	38.241	91.134	10.912	1.00100.07	C
ATOM	4518	CZ	PHE	C	127	37.180	91.966	10.568	1.00100.07	C
ATOM	4519	C	PHE	C	127	43.355	92.557	8.316	1.00 43.59	C
ATOM	4520	O	PHE	C	127	43.393	91.799	7.353	1.00 43.59	C
ATOM	4521	N	ILE	C	128	44.392	93.262	8.765	1.00 62.47	C
ATOM	4522	CA	ILE	C	128	45.743	93.247	8.201	1.00 62.47	C
ATOM	4523	CB	ILE	C	128	46.441	94.595	8.432	1.00 99.55	C
ATOM	4524	CG2	ILE	C	128	47.326	94.931	7.244	1.00 99.55	C
ATOM	4525	CG1	ILE	C	128	45.398	95.688	8.677	1.00 99.55	C
ATOM	4526	CD	ILE	C	128	44.307	95.814	7.606	1.00100.07	C
ATOM	4527	C	ILE	C	128	46.592	92.172	8.866	1.00 62.47	C
ATOM	4528	O	ILE	C	128	46.199	91.618	9.889	1.00 62.47	C
ATOM	4529	N	ILE	C	129	47.767	91.903	8.307	1.00 40.50	C
ATOM	4530	CA	ILE	C	129	48.634	90.854	8.840	1.00 40.50	C
ATOM	4531	CB	ILE	C	129	48.634	90.807	10.375	1.00100.07	C
ATOM	4532	CG2	ILE	C	129	49.187	89.462	10.837	1.00100.07	C
ATOM	4533	CG1	ILE	C	129	49.425	91.975	10.955	1.00100.07	C
ATOM	4534	CD	ILE	C	129	50.894	91.681	11.206	1.00100.07	C
ATOM	4535	C	ILE	C	129	48.070	89.509	8.395	1.00 40.50	C
ATOM	4536	O	ILE	C	129	48.771	88.696	7.798	1.00 40.50	C
ATOM	4537	N	ASN	C	130	46.799	89.308	8.748	1.00 72.40	C
ATOM	4538	CA	ASN	C	130	45.993	88.123	8.471	1.00 72.40	C
ATOM	4539	CB	ASN	C	130	46.859	86.892	8.262	1.00100.07	C
ATOM	4540	CG	ASN	C	130	47.369	86.807	6.849	1.00100.07	C
ATOM	4541	OD1	ASN	C	130	46.818	87.438	5.951	1.00100.07	C
ATOM	4542	ND2	ASN	C	130	48.415	86.029	6.637	1.00100.07	C
ATOM	4543	C	ASN	C	130	45.013	87.900	9.614	1.00 72.40	C
ATOM	4544	O	ASN	C	130	43.972	87.265	9.446	1.00 72.40	C
ATOM	4545	N	GLY	C	131	45.363	88.429	10.780	1.00 86.95	C
ATOM	4546	CA	GLY	C	131	44.499	88.344	11.944	1.00 86.95	C
ATOM	4547	C	GLY	C	131	44.131	89.787	12.247	1.00 86.95	C
ATOM	4548	O	GLY	C	131	45.017	90.612	12.455	1.00 86.95	C
ATOM	4549	N	ALA	C	132	42.842	90.109	12.265	1.00 40.44	C
ATOM	4550	CA	ALA	C	132	42.398	91.483	12.511	1.00 40.44	C
ATOM	4551	CB	ALA	C	132	40.893	91.487	12.835	1.00 5.07	C
ATOM	4552	C	ALA	C	132	43.195	92.180	13.630	1.00 40.44	C
ATOM	4553	O	ALA	C	132	43.742	91.517	14.507	1.00 40.44	C
ATOM	4554	N	ASP	C	133	43.278	93.514	13.571	1.00 39.16	C
ATOM	4555	CA	ASP	C	133	43.986	94.315	14.583	1.00 39.16	C
ATOM	4556	CB	ASP	C	133	45.476	93.952	14.614	1.00100.07	C
ATOM	4557	CG	ASP	C	133	46.090	93.891	13.238	1.00100.07	C
ATOM	4558	OD1	ASP	C	133	45.994	94.891	12.496	1.00100.07	C
ATOM	4559	OD2	ASP	C	133	46.675	92.839	12.903	1.00100.07	C
ATOM	4560	C	ASP	C	133	43.825	95.842	14.446	1.00 39.16	C
ATOM	4561	O	ASP	C	133	43.762	96.367	13.334	1.00 39.16	C
ATOM	4562	N	ARG	C	134	43.753	96.531	15.593	1.00 19.49	C
ATOM	4563	CA	ARG	C	134	43.591	97.984	15.652	1.00 19.49	C
ATOM	4564	CB	ARG	C	134	42.913	98.402	16.961	1.00100.07	C
ATOM	4565	CG	ARG	C	134	41.449	97.991	17.112	1.00100.07	C
ATOM	4566	CD	ARG	C	134	40.466	98.872	16.307	1.00100.07	C
ATOM	4567	NE	ARG	C	134	39.064	98.581	16.647	1.00100.07	C
ATOM	4568	CZ	ARG	C	134	38.006	99.211	16.139	1.00100.07	C
ATOM	4569	NH1	ARG	C	134	38.173	100.181	15.253	1.00100.07	C
ATOM	4570	NH2	ARG	C	134	36.780	98.874	16.521	1.00100.07	C
ATOM	4571	C	ARG	C	134	44.929	98.702	15.544	1.00 19.49	C
ATOM	4572	O	ARG	C	134	45.983	98.084	15.692	1.00 19.49	C
ATOM	4573	N	VAL	C	135	44.872	100.014	15.307	1.00 40.37	C
ATOM	4574	CA	VAL	C	135	46.063	100.842	15.169	1.00 40.37	C
ATOM	4575	CB	VAL	C	135	45.918	101.800	13.997	1.00 49.11	C
ATOM	4576	CG1	VAL	C	135	47.062	101.588	13.020	1.00 49.11	C
ATOM	4577	CG2	VAL	C	135	44.587	101.577	13.319	1.00 49.11	C
ATOM	4578	C	VAL	C	135	46.395	101.645	16.430	1.00 40.37	C
ATOM	4579	O	VAL	C	135	47.556	101.738	16.821	1.00 40.37	C
ATOM	4580	N	ILE	C	136	45.385	102.236	17.059	1.00 46.74	C
ATOM	4581	CA	ILE	C	136	45.576	102.992	18.304	1.00 46.74	C
ATOM	4582	CB	ILE	C	136	46.534	102.285	19.265	1.00 33.21	C

ATOM	4583	CG2	ILE	C	136	46.542	103.009	20.579	1.00	33.21	C
ATOM	4584	CG1	ILE	C	136	46.118	100.835	19.448	1.00	33.21	C
ATOM	4585	CD	ILE	C	136	44.644	100.653	19.701	1.00	73.39	C
ATOM	4586	C	ILE	C	136	46.080	104.413	18.193	1.00	46.74	C
ATOM	4587	O	ILE	C	136	47.275	104.659	18.067	1.00	46.74	C
ATOM	4588	N	VAL	C	137	45.157	105.353	18.281	1.00	30.06	C
ATOM	4589	CA	VAL	C	137	45.500	106.753	18.203	1.00	30.06	C
ATOM	4590	CB	VAL	C	137	44.342	107.561	18.740	1.00	64.43	C
ATOM	4591	CG1	VAL	C	137	44.443	108.968	18.263	1.00	64.43	C
ATOM	4592	CG2	VAL	C	137	43.034	106.931	18.293	1.00	64.43	C
ATOM	4593	C	VAL	C	137	46.771	107.022	19.018	1.00	30.06	C
ATOM	4594	O	VAL	C	137	46.769	106.871	20.232	1.00	30.06	C
ATOM	4595	N	SER	C	138	47.841	107.431	18.336	1.00	32.80	C
ATOM	4596	CA	SER	C	138	49.162	107.692	18.946	1.00	32.80	C
ATOM	4597	CB	SER	C	138	50.210	108.075	17.891	1.00	91.01	C
ATOM	4598	OG	SER	C	138	51.464	108.350	18.526	1.00	91.01	C
ATOM	4599	C	SER	C	138	49.362	108.705	20.063	1.00	32.80	C
ATOM	4600	O	SER	C	138	49.628	109.872	19.793	1.00	32.80	C
ATOM	4601	N	GLN	C	139	49.276	108.247	21.307	1.00	52.72	C
ATOM	4602	CA	GLN	C	139	49.538	109.057	22.504	1.00	52.72	C
ATOM	4603	CB	GLN	C	139	50.884	108.618	23.049	1.00	81.44	C
ATOM	4604	CG	GLN	C	139	51.087	108.824	24.493	1.00	81.44	C
ATOM	4605	CD	GLN	C	139	52.080	107.836	25.010	1.00	81.44	C
ATOM	4606	OE1	GLN	C	139	53.249	107.855	24.633	1.00	81.44	C
ATOM	4607	NE2	GLN	C	139	51.616	106.933	25.849	1.00	81.44	C
ATOM	4608	C	GLN	C	139	49.552	110.582	22.381	1.00	52.72	C
ATOM	4609	O	GLN	C	139	48.756	111.267	23.031	1.00	52.72	C
ATOM	4610	N	ILE	C	140	50.524	111.076	21.602	1.00	61.34	C
ATOM	4611	CA	ILE	C	140	50.750	112.497	21.303	1.00	61.34	C
ATOM	4612	CB	ILE	C	140	49.900	113.403	22.199	1.00	66.08	C
ATOM	4613	CG2	ILE	C	140	50.546	114.766	22.332	1.00	66.08	C
ATOM	4614	CG1	ILE	C	140	48.496	113.506	21.617	1.00	66.08	C
ATOM	4615	CD	ILE	C	140	47.519	114.182	22.530	1.00	100.07	C
ATOM	4616	C	ILE	C	140	52.205	113.021	21.323	1.00	61.34	C
ATOM	4617	O	ILE	C	140	53.090	112.481	22.008	1.00	61.34	C
ATOM	4618	N	HIS	C	141	52.411	114.106	20.573	1.00	41.62	C
ATOM	4619	CA	HIS	C	141	53.707	114.758	20.410	1.00	41.62	C
ATOM	4620	CB	HIS	C	141	53.935	115.022	18.931	1.00	100.07	C
ATOM	4621	CG	HIS	C	141	52.958	114.314	18.057	1.00	100.07	C
ATOM	4622	CD2	HIS	C	141	51.763	114.699	17.555	1.00	100.07	C
ATOM	4623	ND1	HIS	C	141	53.115	112.992	17.700	1.00	100.07	C
ATOM	4624	CE1	HIS	C	141	52.052	112.595	17.019	1.00	100.07	C
ATOM	4625	NE2	HIS	C	141	51.218	113.615	16.920	1.00	100.07	C
ATOM	4626	C	HIS	C	141	53.739	116.083	21.126	1.00	41.62	C
ATOM	4627	O	HIS	C	141	54.450	116.995	20.709	1.00	41.62	C
ATOM	4628	N	ARG	C	142	52.959	116.202	22.189	1.00	38.29	C
ATOM	4629	CA	ARG	C	142	52.895	117.457	22.929	1.00	38.29	C
ATOM	4630	CB	ARG	C	142	54.275	117.834	23.503	1.00	51.20	C
ATOM	4631	CG	ARG	C	142	54.308	119.222	24.142	1.00	51.20	C
ATOM	4632	CD	ARG	C	142	55.067	119.258	25.457	1.00	51.20	C
ATOM	4633	NE	ARG	C	142	56.399	119.819	25.309	1.00	51.20	C
ATOM	4634	CZ	ARG	C	142	57.359	119.264	24.583	1.00	51.20	C
ATOM	4635	NH1	ARG	C	142	57.125	118.128	23.940	1.00	51.20	C
ATOM	4636	NH2	ARG	C	142	58.552	119.844	24.501	1.00	51.20	C
ATOM	4637	C	ARG	C	142	52.370	118.601	22.048	1.00	38.29	C
ATOM	4638	O	ARG	C	142	52.106	119.689	22.561	1.00	38.29	C
ATOM	4639	N	SER	C	143	52.233	118.346	20.736	1.00	13.32	C
ATOM	4640	CA	SER	C	143	51.724	119.314	19.744	1.00	13.32	C
ATOM	4641	CB	SER	C	143	50.630	120.195	20.356	1.00	74.48	C
ATOM	4642	OG	SER	C	143	50.188	121.169	19.431	1.00	74.48	C
ATOM	4643	C	SER	C	143	52.803	120.186	19.133	1.00	13.32	C
ATOM	4644	O	SER	C	143	53.581	120.798	19.844	1.00	13.32	C
ATOM	4645	N	PRO	C	144	52.833	120.286	17.798	1.00	33.41	C
ATOM	4646	CD	PRO	C	144	51.686	119.989	16.927	1.00	47.73	C
ATOM	4647	CA	PRO	C	144	53.826	121.084	17.070	1.00	33.41	C
ATOM	4648	CB	PRO	C	144	53.307	121.048	15.637	1.00	47.73	C
ATOM	4649	CG	PRO	C	144	51.838	121.029	15.834	1.00	47.73	C
ATOM	4650	C	PRO	C	144	54.038	122.514	17.569	1.00	33.41	C
ATOM	4651	O	PRO	C	144	53.157	123.103	18.210	1.00	33.41	C
ATOM	4652	N	GLY	C	145	55.225	123.057	17.286	1.00	44.08	C
ATOM	4653	CA	GLY	C	145	55.528	124.422	17.690	1.00	44.08	C
ATOM	4654	C	GLY	C	145	56.897	124.751	18.269	1.00	44.08	C
ATOM	4655	O	GLY	C	145	57.934	124.315	17.770	1.00	44.08	C
ATOM	4656	N	VAL	C	146	56.873	125.555	19.331	1.00	43.75	C
ATOM	4657	CA	VAL	C	146	58.064	126.017	20.054	1.00	43.75	C
ATOM	4658	CB	VAL	C	146	58.742	127.196	19.320	1.00	46.92	C
ATOM	4659	CG1	VAL	C	146	59.609	127.995	20.293	1.00	46.92	C
ATOM	4660	CG2	VAL	C	146	59.576	126.669	18.152	1.00	46.92	C
ATOM	4661	C	VAL	C	146	57.581	126.512	21.416	1.00	43.75	C
ATOM	4662	O	VAL	C	146	56.627	127.296	21.470	1.00	43.75	C
ATOM	4663	N	TYR	C	147	58.212	126.071	22.510	1.00	41.76	C
ATOM	4664	CA	TYR	C	147	57.755	126.524	23.821	1.00	41.76	C
ATOM	4665	CB	TYR	C	147	56.340	125.986	24.091	1.00	49.74	C
ATOM	4666	CG	TYR	C	147	56.027	124.619	23.509	1.00	49.74	C

ATOM	4751	C	ARG	C	157	65.592	126.380	30.022	1.00100.07	C
ATOM	4752	O	ARG	C	157	65.856	125.179	30.038	1.00100.07	C
ATOM	4753	N	TYR	C	158	65.629	127.133	28.922	1.00 80.15	C
ATOM	4754	CA	TYR	C	158	65.999	126.639	27.587	1.00 80.15	C
ATOM	4755	CB	TYR	C	158	66.807	125.340	27.661	1.00100.07	C
ATOM	4756	CG	TYR	C	158	66.052	124.174	27.103	1.00100.07	C
ATOM	4757	CD1	TYR	C	158	65.109	123.493	27.870	1.00100.07	C
ATOM	4758	CE1	TYR	C	158	64.327	122.479	27.320	1.00100.07	C
ATOM	4759	CD2	TYR	C	158	66.207	123.814	25.772	1.00100.07	C
ATOM	4760	CE2	TYR	C	158	65.435	122.807	25.205	1.00100.07	C
ATOM	4761	CZ	TYR	C	158	64.493	122.139	25.978	1.00100.07	C
ATOM	4762	OH	TYR	C	158	63.718	121.148	25.394	1.00100.07	C
ATOM	4763	C	TYR	C	158	64.755	126.407	26.723	1.00 80.15	C
ATOM	4764	O	TYR	C	158	63.676	126.098	27.232	1.00 80.15	C
ATOM	4765	N	ILE	C	159	64.925	126.514	25.409	1.00 23.07	C
ATOM	4766	CA	ILE	C	159	63.802	126.366	24.494	1.00 23.07	C
ATOM	4767	CB	ILE	C	159	63.603	127.614	23.606	1.00100.07	C
ATOM	4768	CG2	ILE	C	159	62.118	127.883	23.421	1.00100.07	C
ATOM	4769	CG1	ILE	C	159	64.308	128.822	24.212	1.00100.07	C
ATOM	4770	CD	ILE	C	159	65.809	128.767	24.080	1.00100.07	C
ATOM	4771	C	ILE	C	159	63.843	125.195	23.542	1.00 23.07	C
ATOM	4772	O	ILE	C	159	64.884	124.840	22.983	1.00 23.07	C
ATOM	4773	N	ALA	C	160	62.662	124.631	23.339	1.00 47.25	C
ATOM	4774	CA	ALA	C	160	62.475	123.511	22.446	1.00 47.25	C
ATOM	4775	CB	ALA	C	160	61.698	122.408	23.175	1.00 16.84	C
ATOM	4776	C	ALA	C	160	61.713	123.998	21.204	1.00 47.25	C
ATOM	4777	O	ALA	C	160	60.667	124.642	21.320	1.00 47.25	C
ATOM	4778	N	SER	C	161	62.257	123.725	20.022	1.00 99.36	C
ATOM	4779	CA	SER	C	161	61.606	124.115	18.772	1.00 99.36	C
ATOM	4780	CB	SER	C	161	62.640	124.628	17.753	1.00 42.46	C
ATOM	4781	OG	SER	C	161	62.631	126.046	17.644	1.00 42.46	C
ATOM	4782	C	SER	C	161	60.904	122.873	18.228	1.00 99.36	C
ATOM	4783	O	SER	C	161	61.546	121.999	17.638	1.00 99.36	C
ATOM	4784	N	ILE	C	162	59.591	122.794	18.436	1.00100.02	C
ATOM	4785	CA	ILE	C	162	58.806	121.647	17.984	1.00100.02	C
ATOM	4786	CB	ILE	C	162	57.395	121.632	18.588	1.00100.07	C
ATOM	4787	CG2	ILE	C	162	56.686	120.346	18.211	1.00100.07	C
ATOM	4788	CG1	ILE	C	162	57.472	121.682	20.110	1.00100.07	C
ATOM	4789	CD	ILE	C	162	58.042	122.957	20.665	1.00100.07	C
ATOM	4790	C	ILE	C	162	58.672	121.582	16.484	1.00100.02	C
ATOM	4791	O	ILE	C	162	59.157	122.455	15.774	1.00100.02	C
ATOM	4792	N	ILE	C	163	58.002	120.546	15.998	1.00 27.30	C
ATOM	4793	CA	ILE	C	163	57.839	120.380	14.571	1.00 27.30	C
ATOM	4794	CB	ILE	C	163	58.935	119.477	14.050	1.00 37.66	C
ATOM	4795	CG2	ILE	C	163	58.549	118.894	12.717	1.00 37.66	C
ATOM	4796	CG1	ILE	C	163	60.237	120.269	13.991	1.00 37.66	C
ATOM	4797	CD	ILE	C	163	60.127	121.562	13.217	1.00 37.66	C
ATOM	4798	C	ILE	C	163	56.486	119.803	14.208	1.00 27.30	C
ATOM	4799	O	ILE	C	163	55.944	118.980	14.948	1.00 27.30	C
ATOM	4800	N	PRO	C	164	55.921	120.222	13.055	1.00100.07	C
ATOM	4801	CD	PRO	C	164	56.538	121.109	12.051	1.00 96.76	C
ATOM	4802	CA	PRO	C	164	54.614	119.749	12.576	1.00100.07	C
ATOM	4803	CB	PRO	C	164	54.589	120.207	11.107	1.00 96.76	C
ATOM	4804	CG	PRO	C	164	56.036	120.516	10.768	1.00 96.76	C
ATOM	4805	C	PRO	C	164	54.360	118.244	12.722	1.00100.07	C
ATOM	4806	O	PRO	C	164	53.236	117.772	12.520	1.00100.07	C
ATOM	4807	N	LEU	C	165	55.406	117.507	13.083	1.00 69.74	C
ATOM	4808	CA	LEU	C	165	55.330	116.062	13.255	1.00 69.74	C
ATOM	4809	CB	LEU	C	165	54.893	115.414	11.943	1.00100.07	C
ATOM	4810	CG	LEU	C	165	54.813	113.890	11.877	1.00100.07	C
ATOM	4811	CD1	LEU	C	165	53.422	113.447	12.315	1.00100.07	C
ATOM	4812	CD2	LEU	C	165	55.111	113.420	10.459	1.00100.07	C
ATOM	4813	C	LEU	C	165	56.727	115.576	13.600	1.00 69.74	C
ATOM	4814	O	LEU	C	165	57.701	116.279	13.357	1.00 69.74	C
ATOM	4815	N	PRO	C	166	56.850	114.379	14.192	1.00 90.60	C
ATOM	4816	CD	PRO	C	166	55.844	113.495	14.807	1.00 49.54	C
ATOM	4817	CA	PRO	C	166	58.208	113.925	14.504	1.00 90.60	C
ATOM	4818	CB	PRO	C	166	57.969	112.786	15.505	1.00 49.54	C
ATOM	4819	CG	PRO	C	166	56.647	112.240	15.083	1.00 49.54	C
ATOM	4820	C	PRO	C	166	58.918	113.481	13.206	1.00 90.60	C
ATOM	4821	O	PRO	C	166	60.122	113.209	13.192	1.00 90.60	C
ATOM	4822	N	LYS	C	167	58.151	113.430	12.116	1.00100.01	C
ATOM	4823	CA	LYS	C	167	58.668	113.048	10.800	1.00100.01	C
ATOM	4824	CB	LYS	C	167	58.156	111.655	10.396	1.00100.07	C
ATOM	4825	CG	LYS	C	167	58.679	110.494	11.256	1.00100.07	C
ATOM	4826	CD	LYS	C	167	58.161	109.131	10.759	1.00100.07	C
ATOM	4827	CE	LYS	C	167	58.618	107.963	11.653	1.00100.07	C
ATOM	4828	NZ	LYS	C	167	58.148	106.610	11.188	1.00100.07	C
ATOM	4829	C	LYS	C	167	58.235	114.083	9.755	1.00100.01	C
ATOM	4830	O	LYS	C	167	57.872	113.739	8.627	1.00100.01	C
ATOM	4831	N	ARG	C	168	58.276	115.354	10.146	1.00 64.31	C
ATOM	4832	CA	ARG	C	168	57.900	116.453	9.263	1.00 64.31	C
ATOM	4833	CB	ARG	C	168	56.396	116.704	9.374	1.00 77.54	C
ATOM	4834	CG	ARG	C	168	55.723	117.009	8.053	1.00 77.54	C

ATOM	4835	CD	ARG	C	168	56.177	118.346	7.512	1.00	77.54	C
ATOM	4836	NE	ARG	C	168	55.819	118.499	6.109	1.00	77.54	C
ATOM	4837	CZ	ARG	C	168	56.249	117.690	5.147	1.00	77.54	C
ATOM	4838	NH1	ARG	C	168	57.049	116.673	5.444	1.00	77.54	C
ATOM	4839	NH2	ARG	C	168	55.885	117.898	3.888	1.00	77.54	C
ATOM	4840	C	ARG	C	168	58.691	117.720	9.630	1.00	64.31	C
ATOM	4841	O	ARG	C	168	58.182	118.842	9.536	1.00	64.31	C
ATOM	4842	N	GLY	C	169	59.943	117.516	10.042	1.00	72.47	C
ATOM	4843	CA	GLY	C	169	60.812	118.617	10.429	1.00	72.47	C
ATOM	4844	C	GLY	C	169	61.723	118.316	11.617	1.00	72.47	C
ATOM	4845	O	GLY	C	169	61.381	117.508	12.482	1.00	72.47	C
ATOM	4846	N	PRO	C	170	62.898	118.961	11.694	1.00	89.12	C
ATOM	4847	CD	PRO	C	170	63.498	119.758	10.609	1.00	100.07	C
ATOM	4848	CA	PRO	C	170	63.861	118.759	12.784	1.00	89.12	C
ATOM	4849	CB	PRO	C	170	65.157	119.298	12.193	1.00	100.07	C
ATOM	4850	CG	PRO	C	170	64.676	120.391	11.299	1.00	100.07	C
ATOM	4851	C	PRO	C	170	63.543	119.380	14.155	1.00	89.12	C
ATOM	4852	O	PRO	C	170	63.020	120.494	14.262	1.00	89.12	C
ATOM	4853	N	TRP	C	171	63.898	118.625	15.191	1.00	65.36	C
ATOM	4854	CA	TRP	C	171	63.716	118.969	16.607	1.00	65.36	C
ATOM	4855	CB	TRP	C	171	63.716	117.648	17.400	1.00	59.97	C
ATOM	4856	CG	TRP	C	171	63.110	117.578	18.806	1.00	59.97	C
ATOM	4857	CD2	TRP	C	171	61.945	118.255	19.311	1.00	59.97	C
ATOM	4858	CE2	TRP	C	171	61.694	117.749	20.606	1.00	59.97	C
ATOM	4859	CE3	TRP	C	171	61.082	119.228	18.794	1.00	59.97	C
ATOM	4860	CD1	TRP	C	171	63.505	116.725	19.804	1.00	59.97	C
ATOM	4861	NE1	TRP	C	171	62.662	116.820	20.881	1.00	59.97	C
ATOM	4862	CZ2	TRP	C	171	60.625	118.188	21.391	1.00	59.97	C
ATOM	4863	CZ3	TRP	C	171	60.020	119.658	19.581	1.00	59.97	C
ATOM	4864	CH2	TRP	C	171	59.801	119.138	20.858	1.00	59.97	C
ATOM	4865	C	TRP	C	171	64.931	119.822	17.005	1.00	65.36	C
ATOM	4866	O	TRP	C	171	66.047	119.310	17.078	1.00	65.36	C
ATOM	4867	N	ILE	C	172	64.730	121.116	17.236	1.00	75.20	C
ATOM	4868	CA	ILE	C	172	65.842	121.984	17.626	1.00	75.20	C
ATOM	4869	CB	ILE	C	172	65.914	123.297	16.774	1.00	49.67	C
ATOM	4870	CG2	ILE	C	172	66.771	124.342	17.478	1.00	49.67	C
ATOM	4871	CG1	ILE	C	172	66.553	123.049	15.411	1.00	49.67	C
ATOM	4872	CD	ILE	C	172	66.740	124.339	14.603	1.00	49.67	C
ATOM	4873	C	ILE	C	172	65.686	122.412	19.076	1.00	75.20	C
ATOM	4874	O	ILE	C	172	64.570	122.463	19.596	1.00	75.20	C
ATOM	4875	N	ASP	C	173	66.812	122.717	19.723	1.00	45.64	C
ATOM	4876	CA	ASP	C	173	66.807	123.196	21.100	1.00	45.64	C
ATOM	4877	CB	ASP	C	173	66.997	122.054	22.091	1.00	58.55	C
ATOM	4878	CG	ASP	C	173	65.687	121.431	22.510	1.00	58.55	C
ATOM	4879	OD1	ASP	C	173	64.666	122.142	22.491	1.00	58.55	C
ATOM	4880	OD2	ASP	C	173	65.675	120.239	22.877	1.00	58.55	C
ATOM	4881	C	ASP	C	173	67.866	124.255	21.360	1.00	45.64	C
ATOM	4882	O	ASP	C	173	69.064	123.955	21.365	1.00	45.64	C
ATOM	4883	N	LEU	C	174	67.412	125.498	21.535	1.00	26.43	C
ATOM	4884	CA	LEU	C	174	68.296	126.612	21.859	1.00	26.43	C
ATOM	4885	CB	LEU	C	174	67.575	127.939	21.695	1.00	44.43	C
ATOM	4886	CG	LEU	C	174	66.944	128.213	20.335	1.00	44.43	C
ATOM	4887	CD1	LEU	C	174	65.633	128.952	20.541	1.00	44.43	C
ATOM	4888	CD2	LEU	C	174	67.901	129.010	19.456	1.00	44.43	C
ATOM	4889	C	LEU	C	174	68.476	126.309	23.331	1.00	26.43	C
ATOM	4890	O	LEU	C	174	67.490	126.161	24.060	1.00	26.43	C
ATOM	4891	N	GLU	C	175	69.718	126.215	23.780	1.00	54.85	C
ATOM	4892	CA	GLU	C	175	69.955	125.839	25.163	1.00	54.85	C
ATOM	4893	CB	GLU	C	175	70.220	124.337	25.181	1.00	100.07	C
ATOM	4894	CG	GLU	C	175	70.503	123.710	26.510	1.00	100.07	C
ATOM	4895	CD	GLU	C	175	70.747	122.223	26.358	1.00	100.07	C
ATOM	4896	OE1	GLU	C	175	71.643	121.857	25.568	1.00	100.07	C
ATOM	4897	OE2	GLU	C	175	70.046	121.423	27.015	1.00	100.07	C
ATOM	4898	C	GLU	C	175	71.100	126.593	25.818	1.00	54.85	C
ATOM	4899	O	GLU	C	175	72.247	126.151	25.753	1.00	54.85	C
ATOM	4900	N	VAL	C	176	70.784	127.722	26.455	1.00	99.89	C
ATOM	4901	CA	VAL	C	176	71.799	128.533	27.126	1.00	99.89	C
ATOM	4902	CB	VAL	C	176	71.243	129.893	27.605	1.00	100.07	C
ATOM	4903	CG1	VAL	C	176	72.351	130.689	28.289	1.00	100.07	C
ATOM	4904	CG2	VAL	C	176	70.695	130.680	26.428	1.00	100.07	C
ATOM	4905	C	VAL	C	176	72.341	127.791	28.335	1.00	99.89	C
ATOM	4906	O	VAL	C	176	71.575	127.336	29.186	1.00	99.89	C
ATOM	4907	N	GLU	C	177	73.667	127.683	28.396	1.00	99.82	C
ATOM	4908	CA	GLU	C	177	74.368	126.985	29.469	1.00	99.82	C
ATOM	4909	CB	GLU	C	177	75.119	125.780	28.892	1.00	87.63	C
ATOM	4910	CG	GLU	C	177	76.130	126.137	27.801	1.00	87.63	C
ATOM	4911	CD	GLU	C	177	76.448	124.968	26.882	1.00	87.63	C
ATOM	4912	OE1	GLU	C	177	75.514	124.469	26.217	1.00	87.63	C
ATOM	4913	OE2	GLU	C	177	77.625	124.548	26.822	1.00	87.63	C
ATOM	4914	C	GLU	C	177	75.353	127.930	30.136	1.00	99.82	C
ATOM	4915	O	GLU	C	177	75.239	129.148	30.001	1.00	99.82	C
ATOM	4916	N	ALA	C	178	76.319	127.366	30.855	1.00	74.18	C
ATOM	4917	CA	ALA	C	178	77.328	128.176	31.530	1.00	74.18	C
ATOM	4918	CB	ALA	C	178	77.666	127.569	32.909	1.00	22.45	C

ATOM	4919	C	ALA	C	178	78.579	128.251	30.656	1.00	74.18	C
ATOM	4920	O	ALA	C	178	78.916	129.309	30.115	1.00	74.18	C
ATOM	4921	N	SER	C	179	79.250	127.113	30.508	1.00	60.33	C
ATOM	4922	CA	SER	C	179	80.469	127.036	29.717	1.00	60.33	C
ATOM	4923	CB	SER	C	179	81.451	126.053	30.375	1.00	64.32	C
ATOM	4924	OG	SER	C	179	80.799	124.875	30.810	1.00	64.32	C
ATOM	4925	C	SER	C	179	80.212	126.651	28.261	1.00	60.33	C
ATOM	4926	O	SER	C	179	80.744	125.657	27.756	1.00	60.33	C
ATOM	4927	N	GLY	C	180	79.395	127.463	27.594	1.00	100.07	C
ATOM	4928	CA	GLY	C	180	79.049	127.242	26.197	1.00	100.07	C
ATOM	4929	C	GLY	C	180	78.168	128.387	25.721	1.00	100.07	C
ATOM	4930	O	GLY	C	180	78.378	128.961	24.652	1.00	100.07	C
ATOM	4931	N	VAL	C	181	77.180	128.722	26.546	1.00	88.90	C
ATOM	4932	CA	VAL	C	181	76.236	129.803	26.283	1.00	88.90	C
ATOM	4933	CB	VAL	C	181	76.915	131.185	26.413	1.00	94.12	C
ATOM	4934	CG1	VAL	C	181	75.873	132.285	26.277	1.00	94.12	C
ATOM	4935	CG2	VAL	C	181	77.626	131.293	27.758	1.00	94.12	C
ATOM	4936	C	VAL	C	181	75.552	129.722	24.927	1.00	88.90	C
ATOM	4937	O	VAL	C	181	76.198	129.610	23.892	1.00	88.90	C
ATOM	4938	N	VAL	C	182	74.227	129.775	24.960	1.00	41.38	C
ATOM	4939	CA	VAL	C	182	73.406	129.729	23.766	1.00	41.38	C
ATOM	4940	CB	VAL	C	182	73.349	131.117	23.122	1.00	48.32	C
ATOM	4941	CG1	VAL	C	182	72.150	131.204	22.205	1.00	48.32	C
ATOM	4942	CG2	VAL	C	182	73.280	132.187	24.201	1.00	48.32	C
ATOM	4943	C	VAL	C	182	73.883	128.700	22.728	1.00	41.38	C
ATOM	4944	O	VAL	C	182	74.699	129.007	21.846	1.00	41.38	C
ATOM	4945	N	THR	C	183	73.349	127.481	22.838	1.00	81.84	C
ATOM	4946	CA	THR	C	183	73.685	126.370	21.943	1.00	81.84	C
ATOM	4947	CB	THR	C	183	74.093	125.113	22.722	1.00	64.23	C
ATOM	4948	OG1	THR	C	183	75.115	125.435	23.673	1.00	64.23	C
ATOM	4949	CG2	THR	C	183	74.606	124.059	21.767	1.00	64.23	C
ATOM	4950	C	THR	C	183	72.498	125.969	21.081	1.00	81.84	C
ATOM	4951	O	THR	C	183	71.344	126.077	21.499	1.00	81.84	C
ATOM	4952	N	MET	C	184	72.792	125.482	19.881	1.00	87.56	C
ATOM	4953	CA	MET	C	184	71.755	125.051	18.952	1.00	87.56	C
ATOM	4954	CB	MET	C	184	71.859	125.831	17.641	1.00	35.60	C
ATOM	4955	CG	MET	C	184	70.544	126.411	17.140	1.00	35.60	C
ATOM	4956	SD	MET	C	184	69.546	125.324	16.116	1.00	35.60	C
ATOM	4957	CE	MET	C	184	69.895	125.965	14.526	1.00	35.60	C
ATOM	4958	C	MET	C	184	71.959	123.580	18.666	1.00	87.56	C
ATOM	4959	O	MET	C	184	72.660	123.227	17.721	1.00	87.56	C
ATOM	4960	N	LYS	C	185	71.369	122.717	19.487	1.00	47.66	C
ATOM	4961	CA	LYS	C	185	71.514	121.284	19.259	1.00	47.66	C
ATOM	4962	CB	LYS	C	185	71.545	120.525	20.587	1.00	100.07	C
ATOM	4963	CG	LYS	C	185	70.406	120.864	21.522	1.00	100.07	C
ATOM	4964	CD	LYS	C	185	70.432	119.985	22.768	1.00	100.07	C
ATOM	4965	CE	LYS	C	185	69.298	120.357	23.729	1.00	100.07	C
ATOM	4966	NZ	LYS	C	185	69.183	119.465	24.924	1.00	100.07	C
ATOM	4967	C	LYS	C	185	70.350	120.800	18.409	1.00	47.66	C
ATOM	4968	O	LYS	C	185	69.194	121.048	18.752	1.00	47.66	C
ATOM	4969	N	VAL	C	186	70.651	120.144	17.286	1.00	53.45	C
ATOM	4970	CA	VAL	C	186	69.598	119.631	16.412	1.00	53.45	C
ATOM	4971	CB	VAL	C	186	69.804	120.007	14.934	1.00	38.28	C
ATOM	4972	CG1	VAL	C	186	68.477	119.930	14.209	1.00	38.28	C
ATOM	4973	CG2	VAL	C	186	70.390	121.384	14.806	1.00	38.28	C
ATOM	4974	C	VAL	C	186	69.624	118.119	16.505	1.00	53.45	C
ATOM	4975	O	VAL	C	186	69.587	117.558	17.604	1.00	53.45	C
ATOM	4976	N	ASN	C	187	69.688	117.457	15.354	1.00	49.25	C
ATOM	4977	CA	ASN	C	187	69.739	116.005	15.347	1.00	49.25	C
ATOM	4978	CB	ASN	C	187	69.646	115.476	13.912	1.00	100.07	C
ATOM	4979	CG	ASN	C	187	70.553	116.219	12.952	1.00	100.07	C
ATOM	4980	OD1	ASN	C	187	71.684	116.558	13.288	1.00	100.07	C
ATOM	4981	ND2	ASN	C	187	70.063	116.459	11.739	1.00	100.07	C
ATOM	4982	C	ASN	C	187	71.051	115.557	16.003	1.00	49.25	C
ATOM	4983	O	ASN	C	187	71.154	114.453	16.555	1.00	49.25	C
ATOM	4984	N	LYS	C	188	72.037	116.450	15.969	1.00	96.97	C
ATOM	4985	CA	LYS	C	188	73.361	116.185	16.529	1.00	96.97	C
ATOM	4986	CB	LYS	C	188	74.092	115.171	15.633	1.00	100.07	C
ATOM	4987	CG	LYS	C	188	75.556	114.905	15.983	1.00	100.07	C
ATOM	4988	CD	LYS	C	188	76.295	114.220	14.832	1.00	100.07	C
ATOM	4989	CE	LYS	C	188	75.670	112.879	14.465	1.00	100.07	C
ATOM	4990	NZ	LYS	C	188	75.753	111.881	15.572	1.00	100.07	C
ATOM	4991	C	LYS	C	188	74.168	117.489	16.596	1.00	96.97	C
ATOM	4992	O	LYS	C	188	73.862	118.445	15.880	1.00	96.97	C
ATOM	4993	N	ALA	C	189	75.171	117.518	17.478	1.00	79.36	C
ATOM	4994	CA	ALA	C	189	76.092	118.654	17.646	1.00	79.36	C
ATOM	4995	CB	ALA	C	189	76.488	119.205	16.270	1.00	100.07	C
ATOM	4996	C	ALA	C	189	75.738	119.819	18.569	1.00	79.36	C
ATOM	4997	O	ALA	C	189	74.586	120.225	18.705	1.00	79.36	C
ATOM	4998	N	LYS	C	190	76.781	120.360	19.182	1.00	67.78	C
ATOM	4999	CA	LYS	C	190	76.676	121.487	20.098	1.00	67.78	C
ATOM	5000	CB	LYS	C	190	77.584	121.238	21.323	1.00	100.07	C
ATOM	5001	CG	LYS	C	190	77.626	122.351	22.396	1.00	100.07	C
ATOM	5002	CD	LYS	C	190	78.597	122.004	23.549	1.00	100.07	C

ATOM	5003	CE	LYS	C	190	78.694	123.119	24.602	1.00	100.07	C
ATOM	5004	NZ	LYS	C	190	79.616	122.794	25.735	1.00	100.07	C
ATOM	5005	C	LYS	C	190	77.134	122.739	19.347	1.00	67.78	C
ATOM	5006	O	LYS	C	190	77.673	123.674	19.951	1.00	67.78	C
ATOM	5007	N	PHE	C	191	76.924	122.762	18.031	1.00	66.37	C
ATOM	5008	CA	PHE	C	191	77.354	123.912	17.241	1.00	66.37	C
ATOM	5009	CB	PHE	C	191	76.927	123.754	15.776	1.00	74.59	C
ATOM	5010	CG	PHE	C	191	75.594	124.358	15.452	1.00	74.59	C
ATOM	5011	CD1	PHE	C	191	75.479	125.718	15.187	1.00	74.59	C
ATOM	5012	CD2	PHE	C	191	74.452	123.566	15.389	1.00	74.59	C
ATOM	5013	CE1	PHE	C	191	74.243	126.280	14.860	1.00	74.59	C
ATOM	5014	CE2	PHE	C	191	73.215	124.120	15.065	1.00	74.59	C
ATOM	5015	CZ	PHE	C	191	73.112	125.477	14.799	1.00	74.59	C
ATOM	5016	C	PHE	C	191	76.804	125.200	17.846	1.00	66.37	C
ATOM	5017	O	PHE	C	191	75.608	125.322	18.120	1.00	66.37	C
ATOM	5018	N	PRO	C	192	77.688	126.173	18.089	1.00	40.46	C
ATOM	5019	CD	PRO	C	192	79.145	126.072	17.906	1.00	76.02	C
ATOM	5020	CA	PRO	C	192	77.328	127.466	18.672	1.00	40.46	C
ATOM	5021	CB	PRO	C	192	78.641	128.232	18.617	1.00	76.02	C
ATOM	5022	CG	PRO	C	192	79.654	127.142	18.834	1.00	76.02	C
ATOM	5023	C	PRO	C	192	76.192	128.195	17.961	1.00	40.46	C
ATOM	5024	O	PRO	C	192	76.264	128.486	16.758	1.00	40.46	C
ATOM	5025	N	LEU	C	193	75.151	128.497	18.734	1.00	60.89	C
ATOM	5026	CA	LEU	C	193	73.963	129.188	18.234	1.00	60.89	C
ATOM	5027	CB	LEU	C	193	73.038	129.533	19.409	1.00	48.89	C
ATOM	5028	CG	LEU	C	193	71.762	130.334	19.125	1.00	48.89	C
ATOM	5029	CD1	LEU	C	193	72.105	131.774	18.814	1.00	48.89	C
ATOM	5030	CD2	LEU	C	193	71.008	129.705	17.976	1.00	48.89	C
ATOM	5031	C	LEU	C	193	74.265	130.454	17.436	1.00	60.89	C
ATOM	5032	O	LEU	C	193	73.502	130.847	16.552	1.00	60.89	C
ATOM	5033	N	VAL	C	194	75.375	131.097	17.757	1.00	71.15	C
ATOM	5034	CA	VAL	C	194	75.743	132.315	17.069	1.00	71.15	C
ATOM	5035	CB	VAL	C	194	76.998	132.936	17.682	1.00	100.02	C
ATOM	5036	CG1	VAL	C	194	77.129	134.381	17.226	1.00	100.02	C
ATOM	5037	CG2	VAL	C	194	76.947	132.824	19.196	1.00	100.02	C
ATOM	5038	C	VAL	C	194	76.029	132.059	15.596	1.00	71.15	C
ATOM	5039	O	VAL	C	194	75.603	132.829	14.727	1.00	71.15	C
ATOM	5040	N	LEU	C	195	76.748	130.977	15.311	1.00	47.15	C
ATOM	5041	CA	LEU	C	195	77.094	130.699	13.935	1.00	47.15	C
ATOM	5042	CB	LEU	C	195	77.851	129.380	13.801	1.00	30.73	C
ATOM	5043	CG	LEU	C	195	78.273	129.060	12.353	1.00	30.73	C
ATOM	5044	CD1	LEU	C	195	79.236	130.113	11.840	1.00	30.73	C
ATOM	5045	CD2	LEU	C	195	78.916	127.672	12.281	1.00	30.73	C
ATOM	5046	C	LEU	C	195	75.872	130.687	13.051	1.00	47.15	C
ATOM	5047	O	LEU	C	195	75.874	131.334	12.014	1.00	47.15	C
ATOM	5048	N	LEU	C	196	74.818	129.977	13.440	1.00	31.79	C
ATOM	5049	CA	LEU	C	196	73.651	129.963	12.567	1.00	31.79	C
ATOM	5050	CB	LEU	C	196	72.472	129.190	13.160	1.00	36.06	C
ATOM	5051	CG	LEU	C	196	71.180	129.532	12.380	1.00	36.06	C
ATOM	5052	CD1	LEU	C	196	71.322	129.076	10.942	1.00	36.06	C
ATOM	5053	CD2	LEU	C	196	69.952	128.902	13.028	1.00	36.06	C
ATOM	5054	C	LEU	C	196	73.189	131.380	12.284	1.00	31.79	C
ATOM	5055	O	LEU	C	196	73.044	131.763	11.120	1.00	31.79	C
ATOM	5056	N	LEU	C	197	72.943	132.139	13.352	1.00	53.35	C
ATOM	5057	CA	LEU	C	197	72.486	133.520	13.238	1.00	53.35	C
ATOM	5058	CB	LEU	C	197	72.559	134.212	14.586	1.00	13.56	C
ATOM	5059	CG	LEU	C	197	71.501	133.713	15.560	1.00	13.56	C
ATOM	5060	CD1	LEU	C	197	71.666	134.372	16.901	1.00	13.56	C
ATOM	5061	CD2	LEU	C	197	70.134	134.019	14.988	1.00	13.56	C
ATOM	5062	C	LEU	C	197	73.354	134.255	12.253	1.00	53.35	C
ATOM	5063	O	LEU	C	197	72.851	134.933	11.347	1.00	53.35	C
ATOM	5064	N	ARG	C	198	74.664	134.119	12.451	1.00	53.87	C
ATOM	5065	CA	ARG	C	198	75.662	134.727	11.573	1.00	53.87	C
ATOM	5066	CB	ARG	C	198	76.960	133.909	11.681	1.00	100.07	C
ATOM	5067	CG	ARG	C	198	78.258	134.508	11.127	1.00	100.07	C
ATOM	5068	CD	ARG	C	198	79.423	133.535	11.476	1.00	100.07	C
ATOM	5069	NE	ARG	C	198	80.659	133.698	10.692	1.00	100.07	C
ATOM	5070	CZ	ARG	C	198	81.727	132.896	10.778	1.00	100.07	C
ATOM	5071	NH1	ARG	C	198	81.735	131.861	11.614	1.00	100.07	C
ATOM	5072	NH2	ARG	C	198	82.794	133.126	10.021	1.00	100.07	C
ATOM	5073	C	ARG	C	198	75.027	134.622	10.180	1.00	53.87	C
ATOM	5074	O	ARG	C	198	74.616	135.628	9.594	1.00	53.87	C
ATOM	5075	N	VAL	C	199	74.889	133.391	9.692	1.00	47.34	C
ATOM	5076	CA	VAL	C	199	74.284	133.145	8.392	1.00	47.34	C
ATOM	5077	CB	VAL	C	199	74.040	131.641	8.155	1.00	80.39	C
ATOM	5078	CG1	VAL	C	199	72.734	131.430	7.410	1.00	80.39	C
ATOM	5079	CG2	VAL	C	199	75.188	131.057	7.347	1.00	80.39	C
ATOM	5080	C	VAL	C	199	72.965	133.877	8.254	1.00	47.34	C
ATOM	5081	O	VAL	C	199	72.821	134.734	7.395	1.00	47.34	C
ATOM	5082	N	LEU	C	200	72.004	133.548	9.105	1.00	54.72	C
ATOM	5083	CA	LEU	C	200	70.702	134.188	9.028	1.00	54.72	C
ATOM	5084	CB	LEU	C	200	69.822	133.750	10.209	1.00	51.02	C
ATOM	5085	CG	LEU	C	200	69.795	132.231	10.424	1.00	51.02	C
ATOM	5086	CD1	LEU	C	200	68.560	131.831	11.201	1.00	51.02	C

ATOM	5171	OE2	GLU	C	210	68.946	148.927	18.410	1.00100.07	C
ATOM	5172	C	GLU	C	210	68.385	144.008	19.900	1.00 71.12	C
ATOM	5173	O	GLU	C	210	67.498	143.633	19.121	1.00 71.12	C
ATOM	5174	N	LEU	C	211	68.819	143.273	20.921	1.00 54.95	C
ATOM	5175	CA	LEU	C	211	68.251	141.980	21.264	1.00 54.95	C
ATOM	5176	CB	LEU	C	211	69.046	140.836	20.631	1.00 69.50	C
ATOM	5177	CG	LEU	C	211	68.786	139.481	21.316	1.00 69.50	C
ATOM	5178	CD1	LEU	C	211	67.314	139.125	21.179	1.00 69.50	C
ATOM	5179	CD2	LEU	C	211	69.652	138.389	20.723	1.00 69.50	C
ATOM	5180	C	LEU	C	211	68.321	141.826	22.768	1.00 54.95	C
ATOM	5181	O	LEU	C	211	67.340	142.025	23.493	1.00 54.95	C
ATOM	5182	N	SER	C	212	69.509	141.459	23.222	1.00 99.88	C
ATOM	5183	CA	SER	C	212	69.743	141.255	24.632	1.00 99.88	C
ATOM	5184	CB	SER	C	212	70.710	140.092	24.827	1.00100.07	C
ATOM	5185	OG	SER	C	212	70.406	139.040	23.925	1.00100.07	C
ATOM	5186	C	SER	C	212	70.316	142.534	25.214	1.00 99.88	C
ATOM	5187	O	SER	C	212	70.620	143.474	24.480	1.00 99.88	C
ATOM	5188	N	ALA	C	213	70.461	142.553	26.534	1.00 65.46	C
ATOM	5189	CA	ALA	C	213	70.968	143.699	27.270	1.00 65.46	C
ATOM	5190	CB	ALA	C	213	70.391	144.994	26.729	1.00 50.68	C
ATOM	5191	C	ALA	C	213	70.424	143.442	28.645	1.00 65.46	C
ATOM	5192	O	ALA	C	213	71.167	143.102	29.563	1.00 65.46	C
ATOM	5193	N	TYR	C	214	69.109	143.589	28.779	1.00100.07	C
ATOM	5194	CA	TYR	C	214	68.478	143.334	30.059	1.00100.07	C
ATOM	5195	CB	TYR	C	214	66.943	143.486	29.966	1.00 65.35	C
ATOM	5196	CG	TYR	C	214	66.223	142.649	28.912	1.00 65.35	C
ATOM	5197	CD1	TYR	C	214	66.765	141.448	28.420	1.00 65.35	C
ATOM	5198	CE1	TYR	C	214	66.079	140.661	27.496	1.00 65.35	C
ATOM	5199	CD2	TYR	C	214	64.967	143.034	28.446	1.00 65.35	C
ATOM	5200	CE2	TYR	C	214	64.270	142.249	27.523	1.00 65.35	C
ATOM	5201	CZ	TYR	C	214	64.833	141.070	27.052	1.00 65.35	C
ATOM	5202	OH	TYR	C	214	64.154	140.331	26.113	1.00 65.35	C
ATOM	5203	C	TYR	C	214	68.883	141.914	30.470	1.00100.07	C
ATOM	5204	O	TYR	C	214	69.010	141.597	31.654	1.00100.07	C
ATOM	5205	N	GLY	C	215	69.107	141.072	29.467	1.00 80.24	C
ATOM	5206	CA	GLY	C	215	69.520	139.712	29.711	1.00 80.24	C
ATOM	5207	C	GLY	C	215	70.896	139.628	29.099	1.00 80.24	C
ATOM	5208	O	GLY	C	215	71.041	139.784	27.887	1.00 80.24	C
ATOM	5209	N	ASP	C	216	71.912	139.421	29.931	1.00 73.01	C
ATOM	5210	CA	ASP	C	216	73.282	139.326	29.439	1.00 73.01	C
ATOM	5211	CB	ASP	C	216	74.256	139.267	30.613	1.00100.07	C
ATOM	5212	CG	ASP	C	216	74.180	140.505	31.482	1.00100.07	C
ATOM	5213	OD1	ASP	C	216	73.091	140.775	32.028	1.00100.07	C
ATOM	5214	OD2	ASP	C	216	75.198	141.217	31.613	1.00100.07	C
ATOM	5215	C	ASP	C	216	73.394	138.082	28.589	1.00 73.01	C
ATOM	5216	O	ASP	C	216	72.720	137.959	27.569	1.00 73.01	C
ATOM	5217	N	LEU	C	217	74.243	137.153	28.999	1.00 98.70	C
ATOM	5218	CA	LEU	C	217	74.384	135.915	28.249	1.00 98.70	C
ATOM	5219	CB	LEU	C	217	73.049	135.152	28.263	1.00100.07	C
ATOM	5220	CG	LEU	C	217	72.003	135.553	29.323	1.00100.07	C
ATOM	5221	CD1	LEU	C	217	70.897	134.520	29.360	1.00100.07	C
ATOM	5222	CD2	LEU	C	217	72.634	135.656	30.701	1.00100.07	C
ATOM	5223	C	LEU	C	217	74.801	136.221	26.811	1.00 98.70	C
ATOM	5224	O	LEU	C	217	74.785	135.344	25.943	1.00 98.70	C
ATOM	5225	N	VAL	C	218	75.160	137.480	26.570	1.00 98.49	C
ATOM	5226	CA	VAL	C	218	75.601	137.918	25.253	1.00 98.49	C
ATOM	5227	CB	VAL	C	218	75.181	139.364	24.954	1.00 59.59	C
ATOM	5228	CG1	VAL	C	218	75.392	139.661	23.475	1.00 59.59	C
ATOM	5229	CG2	VAL	C	218	73.744	139.585	25.370	1.00 59.59	C
ATOM	5230	C	VAL	C	218	77.116	137.865	25.264	1.00 98.49	C
ATOM	5231	O	VAL	C	218	77.741	137.482	24.279	1.00 98.49	C
ATOM	5232	N	GLN	C	219	77.699	138.265	26.392	1.00 84.51	C
ATOM	5233	CA	GLN	C	219	79.146	138.236	26.560	1.00 84.51	C
ATOM	5234	CB	GLN	C	219	79.528	138.715	27.965	1.00100.03	C
ATOM	5235	CG	GLN	C	219	79.308	140.201	28.224	1.00100.03	C
ATOM	5236	CD	GLN	C	219	79.498	140.581	29.696	1.00100.03	C
ATOM	5237	OE1	GLN	C	219	80.426	140.112	30.362	1.00100.03	C
ATOM	5238	NE2	GLN	C	219	78.622	141.446	30.202	1.00100.03	C
ATOM	5239	C	GLN	C	219	79.592	136.784	26.365	1.00 84.51	C
ATOM	5240	O	GLN	C	219	80.743	136.426	26.620	1.00 84.51	C
ATOM	5241	N	GLY	C	220	78.650	135.955	25.926	1.00 93.33	C
ATOM	5242	CA	GLY	C	220	78.918	134.554	25.679	1.00 93.33	C
ATOM	5243	C	GLY	C	220	78.294	134.174	24.352	1.00 93.33	C
ATOM	5244	O	GLY	C	220	78.074	132.997	24.059	1.00 93.33	C
ATOM	5245	N	LEU	C	221	78.004	135.194	23.551	1.00 91.77	C
ATOM	5246	CA	LEU	C	221	77.402	135.018	22.233	1.00 91.77	C
ATOM	5247	CB	LEU	C	221	75.948	135.498	22.252	1.00 48.22	C
ATOM	5248	CG	LEU	C	221	75.104	135.084	21.051	1.00 48.22	C
ATOM	5249	CD1	LEU	C	221	74.677	133.644	21.284	1.00 48.22	C
ATOM	5250	CD2	LEU	C	221	73.891	135.998	20.877	1.00 48.22	C
ATOM	5251	C	LEU	C	221	78.191	135.868	21.239	1.00 91.77	C
ATOM	5252	O	LEU	C	221	77.843	135.961	20.063	1.00 91.77	C
ATOM	5253	N	LEU	C	222	79.263	136.481	21.728	1.00 68.85	C
ATOM	5254	CA	LEU	C	222	80.083	137.355	20.913	1.00 68.85	C

ATOM	5339	CA	GLU	C	233	81.941	131.309	5.336	1.00	52.83	C
ATOM	5340	CB	GLU	C	233	82.932	132.177	6.098	1.00	82.05	C
ATOM	5341	CG	GLU	C	233	84.350	131.927	5.695	1.00	82.05	C
ATOM	5342	CD	GLU	C	233	84.679	130.463	5.754	1.00	82.05	C
ATOM	5343	OE1	GLU	C	233	84.626	129.893	6.864	1.00	82.05	C
ATOM	5344	OE2	GLU	C	233	84.977	129.883	4.688	1.00	82.05	C
ATOM	5345	C	GLU	C	233	81.076	130.575	6.322	1.00	52.83	C
ATOM	5346	O	GLU	C	233	81.131	129.354	6.405	1.00	52.83	C
ATOM	5347	N	ALA	C	234	80.269	131.332	7.059	1.00	72.93	C
ATOM	5348	CA	ALA	C	234	79.377	130.774	8.068	1.00	72.93	C
ATOM	5349	CB	ALA	C	234	78.211	131.711	8.305	1.00	11.79	C
ATOM	5350	C	ALA	C	234	78.858	129.396	7.693	1.00	72.93	C
ATOM	5351	O	ALA	C	234	79.104	128.424	8.407	1.00	72.93	C
ATOM	5352	N	MET	C	235	78.149	129.311	6.573	1.00	69.38	C
ATOM	5353	CA	MET	C	235	77.592	128.044	6.114	1.00	69.38	C
ATOM	5354	CB	MET	C	235	77.031	128.204	4.715	1.00	63.02	C
ATOM	5355	CG	MET	C	235	76.343	129.507	4.493	1.00	63.02	C
ATOM	5356	SD	MET	C	235	75.998	129.651	2.762	1.00	63.02	C
ATOM	5357	CE	MET	C	235	74.270	129.324	2.748	1.00	63.02	C
ATOM	5358	C	MET	C	235	78.626	126.924	6.095	1.00	69.38	C
ATOM	5359	O	MET	C	235	78.380	125.831	6.607	1.00	69.38	C
ATOM	5360	N	VAL	C	236	79.776	127.193	5.487	1.00	79.28	C
ATOM	5361	CA	VAL	C	236	80.842	126.201	5.403	1.00	79.28	C
ATOM	5362	CB	VAL	C	236	82.046	126.740	4.577	1.00	68.86	C
ATOM	5363	CG1	VAL	C	236	83.247	125.810	4.713	1.00	68.86	C
ATOM	5364	CG2	VAL	C	236	81.655	126.857	3.110	1.00	68.86	C
ATOM	5365	C	VAL	C	236	81.317	125.795	6.797	1.00	79.28	C
ATOM	5366	O	VAL	C	236	81.317	124.613	7.148	1.00	79.28	C
ATOM	5367	N	ARG	C	237	81.713	126.778	7.595	1.00	71.28	C
ATOM	5368	CA	ARG	C	237	82.190	126.500	8.938	1.00	71.28	C
ATOM	5369	CB	ARG	C	237	82.357	127.798	9.726	1.00	100.07	C
ATOM	5370	CG	ARG	C	237	82.899	127.579	11.124	1.00	100.07	C
ATOM	5371	CD	ARG	C	237	82.447	128.678	12.069	1.00	100.07	C
ATOM	5372	NE	ARG	C	237	82.653	128.298	13.467	1.00	100.07	C
ATOM	5373	CZ	ARG	C	237	82.152	128.959	14.506	1.00	100.07	C
ATOM	5374	NH1	ARG	C	237	81.408	130.044	14.315	1.00	100.07	C
ATOM	5375	NH2	ARG	C	237	82.394	128.530	15.738	1.00	100.07	C
ATOM	5376	C	ARG	C	237	81.211	125.592	9.665	1.00	71.28	C
ATOM	5377	O	ARG	C	237	81.595	124.851	10.567	1.00	71.28	C
ATOM	5378	N	LEU	C	238	79.946	125.653	9.263	1.00	96.52	C
ATOM	5379	CA	LEU	C	238	78.897	124.845	9.875	1.00	96.52	C
ATOM	5380	CB	LEU	C	238	77.562	125.572	9.765	1.00	29.95	C
ATOM	5381	CG	LEU	C	238	76.433	125.042	10.639	1.00	29.95	C
ATOM	5382	CD1	LEU	C	238	76.794	125.328	12.090	1.00	29.95	C
ATOM	5383	CD2	LEU	C	238	75.105	125.699	10.265	1.00	29.95	C
ATOM	5384	C	LEU	C	238	78.782	123.473	9.206	1.00	96.52	C
ATOM	5385	O	LEU	C	238	78.873	122.433	9.870	1.00	96.52	C
ATOM	5386	N	PHE	C	239	78.560	123.485	7.891	1.00	77.89	C
ATOM	5387	CA	PHE	C	239	78.444	122.259	7.106	1.00	77.89	C
ATOM	5388	CB	PHE	C	239	78.727	122.562	5.635	1.00	99.87	C
ATOM	5389	CG	PHE	C	239	77.738	121.957	4.684	1.00	99.87	C
ATOM	5390	CD1	PHE	C	239	77.187	122.723	3.660	1.00	99.87	C
ATOM	5391	CD2	PHE	C	239	77.390	120.616	4.777	1.00	99.87	C
ATOM	5392	CE1	PHE	C	239	76.306	122.164	2.740	1.00	99.87	C
ATOM	5393	CE2	PHE	C	239	76.514	120.045	3.861	1.00	99.87	C
ATOM	5394	CZ	PHE	C	239	75.970	120.822	2.840	1.00	99.87	C
ATOM	5395	C	PHE	C	239	79.509	121.339	7.671	1.00	77.89	C
ATOM	5396	O	PHE	C	239	79.265	120.168	7.939	1.00	77.89	C
ATOM	5397	N	THR	C	240	80.692	121.907	7.866	1.00	42.59	C
ATOM	5398	CA	THR	C	240	81.806	121.184	8.443	1.00	42.59	C
ATOM	5399	CB	THR	C	240	82.940	122.145	8.869	1.00	59.06	C
ATOM	5400	OG1	THR	C	240	83.463	122.801	7.709	1.00	59.06	C
ATOM	5401	CG2	THR	C	240	84.064	121.386	9.585	1.00	59.06	C
ATOM	5402	C	THR	C	240	81.299	120.475	9.685	1.00	42.59	C
ATOM	5403	O	THR	C	240	81.233	119.251	9.718	1.00	42.59	C
ATOM	5404	N	LEU	C	241	80.938	121.261	10.697	1.00	100.07	C
ATOM	5405	CA	LEU	C	241	80.440	120.742	11.967	1.00	100.07	C
ATOM	5406	CB	LEU	C	241	79.885	121.880	12.818	1.00	44.55	C
ATOM	5407	CG	LEU	C	241	80.862	123.035	13.055	1.00	44.55	C
ATOM	5408	CD1	LEU	C	241	80.105	124.199	13.661	1.00	44.55	C
ATOM	5409	CD2	LEU	C	241	82.011	122.600	13.950	1.00	44.55	C
ATOM	5410	C	LEU	C	241	79.376	119.678	11.762	1.00	100.07	C
ATOM	5411	O	LEU	C	241	79.093	118.892	12.667	1.00	100.07	C
ATOM	5412	N	LEU	C	242	78.771	119.671	10.579	1.00	72.59	C
ATOM	5413	CA	LEU	C	242	77.781	118.654	10.245	1.00	72.59	C
ATOM	5414	CB	LEU	C	242	76.519	119.298	9.674	1.00	85.83	C
ATOM	5415	CG	LEU	C	242	75.641	119.902	10.779	1.00	85.83	C
ATOM	5416	CD1	LEU	C	242	76.424	120.948	11.554	1.00	85.83	C
ATOM	5417	CD2	LEU	C	242	74.388	120.509	10.172	1.00	85.83	C
ATOM	5418	C	LEU	C	242	78.452	117.697	9.249	1.00	72.59	C
ATOM	5419	O	LEU	C	242	77.998	117.494	8.115	1.00	72.59	C
ATOM	5420	N	ARG	C	243	79.560	117.142	9.747	1.00	80.45	C
ATOM	5421	CA	ARG	C	243	80.477	116.195	9.107	1.00	80.45	C
ATOM	5422	CB	ARG	C	243	80.728	115.021	10.066	1.00	100.07	C

ATOM	5507	CG	LEU	C	254	72.617	120.785	5.262	1.00	10.72	C
ATOM	5508	CD1	LEU	C	254	71.649	119.664	5.693	1.00	10.72	C
ATOM	5509	CD2	LEU	C	254	74.029	120.414	5.586	1.00	10.72	C
ATOM	5510	C	LEU	C	254	70.335	122.252	3.959	1.00	81.03	C
ATOM	5511	O	LEU	C	254	69.256	121.962	4.482	1.00	81.03	C
ATOM	5512	N	ALA	C	255	70.875	123.469	4.023	1.00	39.51	C
ATOM	5513	CA	ALA	C	255	70.185	124.579	4.670	1.00	39.51	C
ATOM	5514	CB	ALA	C	255	71.140	125.786	4.834	1.00	16.33	C
ATOM	5515	C	ALA	C	255	69.057	124.878	3.664	1.00	39.51	C
ATOM	5516	O	ALA	C	255	68.135	125.649	3.919	1.00	39.51	C
ATOM	5517	N	TYR	C	256	69.154	124.224	2.510	1.00	72.15	C
ATOM	5518	CA	TYR	C	256	68.158	124.340	1.455	1.00	72.15	C
ATOM	5519	CB	TYR	C	256	68.586	123.493	0.247	1.00	100.07	C
ATOM	5520	CG	TYR	C	256	68.440	124.166	-1.112	1.00	100.07	C
ATOM	5521	CD1	TYR	C	256	69.177	125.309	-1.437	1.00	100.07	C
ATOM	5522	CE1	TYR	C	256	69.056	125.920	-2.704	1.00	100.07	C
ATOM	5523	CD2	TYR	C	256	67.575	123.647	-2.084	1.00	100.07	C
ATOM	5524	CE2	TYR	C	256	67.447	124.250	-3.352	1.00	100.07	C
ATOM	5525	CZ	TYR	C	256	68.188	125.385	-3.654	1.00	100.07	C
ATOM	5526	OH	TYR	C	256	68.051	125.988	-4.889	1.00	100.07	C
ATOM	5527	C	TYR	C	256	66.905	123.752	2.106	1.00	72.15	C
ATOM	5528	O	TYR	C	256	65.813	123.773	1.544	1.00	72.15	C
ATOM	5529	N	LEU	C	257	67.103	123.209	3.303	1.00	82.61	C
ATOM	5530	CA	LEU	C	257	66.042	122.616	4.107	1.00	82.61	C
ATOM	5531	CB	LEU	C	257	66.359	121.153	4.437	1.00	100.07	C
ATOM	5532	CG	LEU	C	257	66.487	120.060	3.373	1.00	100.07	C
ATOM	5533	CD1	LEU	C	257	66.967	118.776	4.050	1.00	100.07	C
ATOM	5534	CD2	LEU	C	257	65.161	119.825	2.685	1.00	100.07	C
ATOM	5535	C	LEU	C	257	66.001	123.419	5.407	1.00	82.61	C
ATOM	5536	O	LEU	C	257	65.991	124.650	5.369	1.00	82.61	C
ATOM	5537	N	PHE	C	258	65.991	122.708	6.541	1.00	51.05	C
ATOM	5538	CA	PHE	C	258	65.976	123.303	7.877	1.00	51.05	C
ATOM	5539	CB	PHE	C	258	67.381	123.254	8.482	1.00	99.09	C
ATOM	5540	CG	PHE	C	258	68.011	121.890	8.464	1.00	99.09	C
ATOM	5541	CD1	PHE	C	258	68.064	121.142	7.290	1.00	99.09	C
ATOM	5542	CD2	PHE	C	258	68.599	121.372	9.614	1.00	99.09	C
ATOM	5543	CE1	PHE	C	258	68.691	119.896	7.258	1.00	99.09	C
ATOM	5544	CE2	PHE	C	258	69.231	120.126	9.597	1.00	99.09	C
ATOM	5545	CZ	PHE	C	258	69.280	119.387	8.414	1.00	99.09	C
ATOM	5546	C	PHE	C	258	65.498	124.757	7.841	1.00	51.05	C
ATOM	5547										

ATOM	5591	CG	LYS	C	265	60.204	123.796	9.035	1.00	61.50	C
ATOM	5592	CD	LYS	C	265	60.899	123.147	10.239	1.00	61.50	C
ATOM	5593	CE	LYS	C	265	61.087	124.124	11.387	1.00	61.50	C
ATOM	5594	NZ	LYS	C	265	61.852	123.539	12.524	1.00	61.50	C
ATOM	5595	C	LYS	C	265	57.807	122.536	7.242	1.00	72.31	C
ATOM	5596	O	LYS	C	265	57.822	123.041	6.120	1.00	72.31	C
ATOM	5597	N	ARG	C	266	56.732	122.573	8.025	1.00	100.07	C
ATOM	5598	CA	ARG	C	266	55.543	123.258	7.532	1.00	100.07	C
ATOM	5599	CB	ARG	C	266	54.941	122.482	6.353	1.00	100.07	C
ATOM	5600	CG	ARG	C	266	53.930	123.275	5.517	1.00	100.07	C
ATOM	5601	CD	ARG	C	266	53.633	122.575	4.186	1.00	100.07	C
ATOM	5602	NE	ARG	C	266	52.774	123.371	3.310	1.00	100.07	C
ATOM	5603	CZ	ARG	C	266	52.493	123.057	2.049	1.00	100.07	C
ATOM	5604	NH1	ARG	C	266	53.005	121.959	1.509	1.00	100.07	C
ATOM	5605	NH2	ARG	C	266	51.707	123.846	1.325	1.00	100.07	C
ATOM	5606	C	ARG	C	266	54.447	123.558	8.540	1.00	100.07	C
ATOM	5607	O	ARG	C	266	53.804	124.607	8.454	1.00	100.07	C
ATOM	5608	N	TYR	C	267	54.234	122.656	9.496	1.00	84.65	C
ATOM	5609	CA	TYR	C	267	53.173	122.841	10.490	1.00	84.65	C
ATOM	5610	CB	TYR	C	267	53.466	124.029	11.401	1.00	86.36	C
ATOM	5611	CG	TYR	C	267	54.922	124.194	11.775	1.00	86.36	C
ATOM	5612	CD1	TYR	C	267	55.839	124.731	10.871	1.00	86.36	C
ATOM	5613	CE1	TYR	C	267	57.162	124.942	11.228	1.00	86.36	C
ATOM	5614	CD2	TYR	C	267	55.374	123.868	13.048	1.00	86.36	C
ATOM	5615	CE2	TYR	C	267	56.696	124.078	13.416	1.00	86.36	C
ATOM	5616	CZ	TYR	C	267	57.583	124.616	12.504	1.00	86.36	C
ATOM	5617	OH	TYR	C	267	58.890	124.827	12.867	1.00	86.36	C
ATOM	5618	C	TYR	C	267	51.891	123.103	9.707	1.00	84.65	C
ATOM	5619	O	TYR	C	267	50.884	123.568	10.255	1.00	84.65	C
ATOM	5620	N	ALA	C	268	51.984	122.803	8.409	1.00	100.07	C
ATOM	5621	CA	ALA	C	268	50.920	122.939	7.411	1.00	100.07	C
ATOM	5622	CB	ALA	C	268	50.044	121.675	7.419	1.00	100.07	C
ATOM	5623	C	ALA	C	268	50.037	124.189	7.495	1.00	100.07	C
ATOM	5624	O	ALA	C	268	48.819	124.080	7.718	1.00	100.07	C
ATOM	5625	N	ALA	C	269	50.646	125.361	7.283	1.00	100.07	C
ATOM	5626	CA	ALA	C	269	49.934	126.646	7.335	1.00	100.07	C
ATOM	5627	CB	ALA	C	269	49.281	126.949	5.977	1.00	100.07	C
ATOM	5628	C	ALA	C	269	48.875	126.637	8.440	1.00	100.07	C
ATOM	5629	O	ALA	C	269	47.958	127.469	8.452	1.00	100.07	C
ATOM	5630	N	GLY	C	270	49.030	125.682	9.360	1.00	89.18	C
ATOM	5631	CA	GLY	C	270	48.118	125.515	10.469	1.00	89.18	C
ATOM	5632	C	GLY	C	270	48.834	125.823	11.762	1.00	89.18	C
ATOM	5633	O	GLY	C	270	50.049	125.625	11.875	1.00	89.18	C
ATOM	5634	N	ALA	C	271	48.058	126.312	12.726	1.00	96.46	C
ATOM	5635	CA	ALA	C	271	48.535	126.702	14.051	1.00	96.46	C
ATOM	5636	CB	ALA	C	271	47.351	126.775	15.015	1.00	65.34	C
ATOM	5637	C	ALA	C	271	49.624	125.792	14.615	1.00	96.46	C
ATOM	5638	O	ALA	C	271	49.810	124.668	14.141	1.00	96.46	C
ATOM	5639	N	ALA	C	272	50.328	126.287	15.635	1.00	66.27	C
ATOM	5640	CA	ALA	C	272	51.422	125.546	16.265	1.00	66.27	C
ATOM	5641	CB	ALA	C	272	50.971	124.154	16.673	1.00	100.07	C
ATOM	5642	C	ALA	C	272	52.488	125.464	15.199	1.00	66.27	C
ATOM	5643	O	ALA	C	272	52.524	124.527	14.402	1.00	66.27	C
ATOM	5644	N	GLY	C	273	53.360	126.458	15.201	1.00	72.04	C
ATOM	5645	CA	GLY	C	273	54.401	126.555	14.199	1.00	72.04	C
ATOM	5646	C	GLY	C	273	54.035	127.902	13.644	1.00	72.04	C
ATOM	5647	O	GLY	C	273	54.708	128.483	12.797	1.00	72.04	C
ATOM	5648	N	ALA	C	274	52.916	128.381	14.178	1.00	17.99	C
ATOM	5649	CA	ALA	C	274	52.341	129.672	13.865	1.00	17.99	C
ATOM	5650	CB	ALA	C	274	51.802	129.688	12.429	1.00	26.15	C
ATOM	5651	C	ALA	C	274	51.211	129.906	14.874	1.00	17.99	C
ATOM	5652	O	ALA	C	274	51.170	129.285	15.951	1.00	17.99	C
ATOM	5653	N	ALA	C	275	50.305	130.808	14.509	1.00	100.07	C
ATOM	5654	CA	ALA	C	275	49.160	131.172	15.331	1.00	100.07	C
ATOM	5655	CB	ALA	C	275	47.865	130.813	14.600	1.00	36.93	C
ATOM	5656	C	ALA	C	275	49.172	130.551	16.728	1.00	100.07	C
ATOM	5657	O	ALA	C	275	49.986	130.940	17.570	1.00	100.07	C
ATOM	5658	N	ALA	C	276	48.281	129.580	16.950	1.00	99.84	C
ATOM	5659	CA	ALA	C	276	48.108	128.890	18.236	1.00	99.84	C
ATOM	5660	CB	ALA	C	276	47.739	127.437	18.016	1.00	5.07	C
ATOM	5661	C	ALA	C	276	49.263	128.956	19.207	1.00	99.84	C
ATOM	5662	O	ALA	C	276	49.059	128.866	20.417	1.00	99.84	C
ATOM	5663	N	ALA	C	277	50.477	129.090	18.693	1.00	75.88	C
ATOM	5664	CA	ALA	C	277	51.622	129.160	19.574	1.00	75.88	C
ATOM	5665	CB	ALA	C	277	52.113	127.747	19.908	1.00	100.07	C
ATOM	5666	C	ALA	C	277	52.756	129.983	18.998	1.00	75.88	C
ATOM	5667	O	ALA	C	277	53.021	131.091	19.463	1.00	75.88	C
ATOM	5668	N	ALA	C	278	53.428	129.426	17.994	1.00	47.49	C
ATOM	5669	CA	ALA	C	278	54.558	130.089	17.371	1.00	47.49	C
ATOM	5670	CB	ALA	C	278	54.720	129.613	15.966	1.00	23.99	C
ATOM	5671	C	ALA	C	278	54.351	131.588	17.394	1.00	47.49	C
ATOM	5672	O	ALA	C	278	54.982	132.291	18.189	1.00	47.49	C
ATOM	5673	N	GLU	C	279	53.454	132.069	16.534	1.00	100.07	C
ATOM	5674	CA	GLU	C	279	53.156	133.493	16.458	1.00	100.07	C

ATOM	5675	CB	GLU	C	279	52.197	133.787	15.298	1.00100.07	C
ATOM	5676	CG	GLU	C	279	52.880	133.871	13.939	1.00100.07	C
ATOM	5677	CD	GLU	C	279	51.981	134.458	12.859	1.00100.07	C
ATOM	5678	OE1	GLU	C	279	51.425	135.562	13.075	1.00100.07	C
ATOM	5679	OE2	GLU	C	279	51.838	133.818	11.791	1.00100.07	C
ATOM	5680	C	GLU	C	279	52.567	134.021	17.762	1.00100.07	C
ATOM	5681	O	GLU	C	279	52.471	135.233	17.960	1.00100.07	C
ATOM	5682	N	LYS	C	280	52.175	133.120	18.657	1.00 81.12	C
ATOM	5683	CA	LYS	C	280	51.618	133.552	19.928	1.00 81.12	C
ATOM	5684	CB	LYS	C	280	50.574	132.564	20.431	1.00 49.89	C
ATOM	5685	CG	LYS	C	280	49.621	133.205	21.430	1.00 49.89	C
ATOM	5686	CD	LYS	C	280	49.261	134.642	21.000	1.00 49.89	C
ATOM	5687	CE	LYS	C	280	48.687	134.698	19.577	1.00 49.89	C
ATOM	5688	NZ	LYS	C	280	48.550	136.094	19.073	1.00 49.89	C
ATOM	5689	C	LYS	C	280	52.696	133.742	20.983	1.00 81.12	C
ATOM	5690	O	LYS	C	280	52.419	133.738	22.181	1.00 81.12	C
ATOM	5691	N	LEU	C	281	53.925	133.908	20.508	1.00 61.88	C
ATOM	5692	CA	LEU	C	281	55.108	134.127	21.334	1.00 61.88	C
ATOM	5693	CB	LEU	C	281	55.520	132.839	22.056	1.00 76.71	C
ATOM	5694	CG	LEU	C	281	54.539	132.276	23.087	1.00 76.71	C
ATOM	5695	CD1	LEU	C	281	55.055	130.969	23.676	1.00 76.71	C
ATOM	5696	CD2	LEU	C	281	54.333	133.317	24.168	1.00 76.71	C
ATOM	5697	C	LEU	C	281	56.170	134.524	20.321	1.00 61.88	C
ATOM	5698	O	LEU	C	281	57.237	133.905	20.232	1.00 61.88	C
ATOM	5699	N	GLY	C	282	55.844	135.548	19.534	1.00 89.14	C
ATOM	5700	CA	GLY	C	282	56.754	136.028	18.505	1.00 89.14	C
ATOM	5701	C	GLY	C	282	56.138	137.047	17.556	1.00 89.14	C
ATOM	5702	O	GLY	C	282	56.759	137.462	16.570	1.00 89.14	C
ATOM	5703	N	VAL	C	283	54.903	137.439	17.851	1.00 88.20	C
ATOM	5704	CA	VAL	C	283	54.199	138.428	17.052	1.00 88.20	C
ATOM	5705	CB	VAL	C	283	55.091	139.670	16.821	1.00100.07	C
ATOM	5706	CG1	VAL	C	283	54.280	140.781	16.169	1.00100.07	C
ATOM	5707	CG2	VAL	C	283	55.691	140.135	18.145	1.00100.07	C
ATOM	5708	C	VAL	C	283	53.714	137.913	15.699	1.00 88.20	C
ATOM	5709	O	VAL	C	283	52.506	137.821	15.460	1.00 88.20	C
ATOM	5710	N	GLY	C	284	54.648	137.582	14.812	1.00 54.85	C
ATOM	5711	CA	GLY	C	284	54.254	137.109	13.497	1.00 54.85	C
ATOM	5712	C	GLY	C	284	55.070	135.958	12.939	1.00 54.85	C
ATOM	5713	O	GLY	C	284	55.853	135.323	13.657	1.00 54.85	C
ATOM	5714	N	LEU	C	285	54.859	135.682	11.651	1.00 56.96	C
ATOM	5715	CA	LEU	C	285	55.566	134.615	10.938	1.00 56.96	C
ATOM	5716	CB	LEU	C	285	55.563	133.330	11.769	1.00 65.06	C
ATOM	5717	CG	LEU	C	285	56.924	132.701	12.073	1.00 65.06	C
ATOM	5718	CD1	LEU	C	285	56.706	131.522	12.993	1.00 65.06	C
ATOM	5719	CD2	LEU	C	285	57.614	132.256	10.793	1.00 65.06	C
ATOM	5720	C	LEU	C	285	54.972	134.331	9.554	1.00 56.96	C
ATOM	5721	O	LEU	C	285	54.267	135.165	8.979	1.00 56.96	C
ATOM	5722	N	SER	C	286	55.274	133.141	9.034	1.00100.07	C
ATOM	5723	CA	SER	C	286	54.802	132.695	7.723	1.00100.07	C
ATOM	5724	CB	SER	C	286	55.404	133.573	6.614	1.00 92.37	C
ATOM	5725	OG	SER	C	286	55.095	134.946	6.798	1.00 92.37	C
ATOM	5726	C	SER	C	286	55.214	131.237	7.485	1.00100.07	C
ATOM	5727	O	SER	C	286	56.104	130.971	6.680	1.00100.07	C
ATOM	5728	N	GLY	C	287	54.575	130.295	8.172	1.00 81.48	C
ATOM	5729	CA	GLY	C	287	54.944	128.903	7.985	1.00 81.48	C
ATOM	5730	C	GLY	C	287	56.365	128.649	8.468	1.00 81.48	C
ATOM	5731	O	GLY	C	287	56.907	129.455	9.227	1.00 81.48	C
ATOM	5732	N	ALA	C	288	56.969	127.546	8.018	1.00 69.71	C
ATOM	5733	CA	ALA	C	288	58.337	127.125	8.393	1.00 69.71	C
ATOM	5734	CB	ALA	C	288	58.997	126.395	7.223	1.00 54.40	C
ATOM	5735	C	ALA	C	288	59.338	128.138	8.952	1.00 69.71	C
ATOM	5736	O	ALA	C	288	59.283	129.335	8.681	1.00 69.71	C
ATOM	5737	N	THR	C	289	60.280	127.602	9.717	1.00100.07	C
ATOM	5738	CA	THR	C	289	61.337	128.373	10.358	1.00100.07	C
ATOM	5739	CB	THR	C	289	62.183	127.468	11.290	1.00 67.47	C
ATOM	5740	OG1	THR	C	289	61.347	126.892	12.301	1.00 67.47	C
ATOM	5741	CG2	THR	C	289	63.286	128.261	11.947	1.00 67.47	C
ATOM	5742	C	THR	C	289	62.284	128.994	9.337	1.00100.07	C
ATOM	5743	O	THR	C	289	62.572	128.384	8.307	1.00100.07	C
ATOM	5744	N	LEU	C	290	62.756	130.208	9.631	1.00 25.23	C
ATOM	5745	CA	LEU	C	290	63.710	130.912	8.770	1.00 25.23	C
ATOM	5746	CB	LEU	C	290	65.067	130.239	8.929	1.00100.07	C
ATOM	5747	CG	LEU	C	290	66.237	130.717	8.087	1.00100.07	C
ATOM	5748	CD1	LEU	C	290	66.668	132.100	8.534	1.00100.07	C
ATOM	5749	CD2	LEU	C	290	67.374	129.727	8.248	1.00100.07	C
ATOM	5750	C	LEU	C	290	63.332	130.942	7.287	1.00 25.23	C
ATOM	5751	O	LEU	C	290	63.176	129.891	6.671	1.00 25.23	C
ATOM	5752	N	VAL	C	291	63.195	132.131	6.703	1.00100.07	C
ATOM	5753	CA	VAL	C	291	62.858	132.202	5.282	1.00100.07	C
ATOM	5754	CB	VAL	C	291	62.652	133.652	4.797	1.00 71.19	C
ATOM	5755	CG1	VAL	C	291	62.031	133.642	3.403	1.00 71.19	C
ATOM	5756	CG2	VAL	C	291	61.752	134.407	5.767	1.00 71.19	C
ATOM	5757	C	VAL	C	291	64.031	131.577	4.532	1.00100.07	C
ATOM	5758	O	VAL	C	291	64.780	130.797	5.119	1.00100.07	C

ATOM	5759	N	ALA	C	292	64.215	131.905	3.254	1.00100.07	C
ATOM	5760	CA	ALA	C	292	65.321	131.299	2.513	1.00100.07	C
ATOM	5761	CB	ALA	C	292	65.063	129.801	2.355	1.00100.07	C
ATOM	5762	C	ALA	C	292	65.684	131.890	1.154	1.00100.07	C
ATOM	5763	O	ALA	C	292	65.429	133.061	0.867	1.00100.07	C
ATOM	5764	N	ALA	C	293	66.299	131.038	0.335	1.00100.07	C
ATOM	5765	CA	ALA	C	293	66.748	131.371	-1.008	1.00100.07	C
ATOM	5766	CB	ALA	C	293	66.909	130.084	-1.819	1.00 63.42	C
ATOM	5767	C	ALA	C	293	65.845	132.360	-1.755	1.00100.07	C
ATOM	5768	O	ALA	C	293	64.958	131.970	-2.524	1.00100.07	C
ATOM	5769	N	GLU	C	294	66.087	133.647	-1.523	1.00 99.91	C
ATOM	5770	CA	GLU	C	294	65.330	134.712	-2.168	1.00 99.91	C
ATOM	5771	CB	GLU	C	294	64.719	135.635	-1.119	1.00100.07	C
ATOM	5772	CG	GLU	C	294	63.552	135.032	-0.378	1.00100.07	C
ATOM	5773	CD	GLU	C	294	62.824	136.059	0.451	1.00100.07	C
ATOM	5774	OE1	GLU	C	294	61.710	135.751	0.933	1.00100.07	C
ATOM	5775	OE2	GLU	C	294	63.372	137.173	0.617	1.00100.07	C
ATOM	5776	C	GLU	C	294	66.284	135.504	-3.037	1.00 99.91	C
ATOM	5777	O	GLU	C	294	66.307	135.363	-4.261	1.00 99.91	C
ATOM	5778	N	ASP	C	295	67.065	136.348	-2.380	1.00 95.05	C
ATOM	5779	CA	ASP	C	295	68.054	137.153	-3.060	1.00 95.05	C
ATOM	5780	CB	ASP	C	295	68.041	138.580	-2.516	1.00100.07	C
ATOM	5781	CG	ASP	C	295	66.651	139.158	-2.449	1.00100.07	C
ATOM	5782	OD1	ASP	C	295	65.914	139.028	-3.448	1.00100.07	C
ATOM	5783	OD2	ASP	C	295	66.301	139.746	-1.402	1.00100.07	C
ATOM	5784	C	ASP	C	295	69.393	136.492	-2.758	1.00 95.05	C
ATOM	5785	O	ASP	C	295	70.361	136.646	-3.506	1.00 95.05	C
ATOM	5786	N	GLY	C	296	69.431	135.749	-1.653	1.00100.07	C
ATOM	5787	CA	GLY	C	296	70.645	135.064	-1.244	1.00100.07	C
ATOM	5788	C	GLY	C	296	70.417	134.198	-0.018	1.00100.07	C
ATOM	5789	O	GLY	C	296	69.728	133.180	-0.092	1.00100.07	C
ATOM	5790	N	ALA	C	297	70.989	134.597	1.114	1.00100.03	C
ATOM	5791	CA	ALA	C	297	70.835	133.835	2.348	1.00100.03	C
ATOM	5792	CB	ALA	C	297	71.762	134.378	3.425	1.00 32.08	C
ATOM	5793	C	ALA	C	297	69.397	133.907	2.822	1.00100.03	C
ATOM	5794	O	ALA	C	297	68.624	134.743	2.355	1.00100.03	C
ATOM	5795	N	ALA	C	298	69.040	133.030	3.750	1.00 52.31	C
ATOM	5796	CA	ALA	C	298	67.687	133.016	4.283	1.00 52.31	C
ATOM	5797	CB	ALA	C	298	67.437	131.684	4.964	1.00100.07	C
ATOM	5798	C	ALA	C	298	67.547	134.166	5.287	1.00 52.31	C
ATOM	5799	O	ALA	C	298	68.532	134.849	5.577	1.00 52.31	C
ATOM	5800	N	LYS	C	299	66.337	134.409	5.795	1.00 94.40	C
ATOM	5801	CA	LYS	C	299	66.154	135.450	6.815	1.00 94.40	C
ATOM	5802	CB	LYS	C	299	65.529	136.722	6.242	1.00 99.97	C
ATOM	5803	CG	LYS	C	299	65.443	137.853	7.288	1.00 99.97	C
ATOM	5804	CD	LYS	C	299	66.813	138.136	7.929	1.00 99.97	C
ATOM	5805	CE	LYS	C	299	66.751	139.280	8.934	1.00 99.97	C
ATOM	5806	NZ	LYS	C	299	68.101	139.620	9.472	1.00 99.97	C
ATOM	5807	C	LYS	C	299	65.301	134.950	7.981	1.00 94.40	C
ATOM	5808	O	LYS	C	299	64.147	134.557	7.797	1.00 94.40	C
ATOM	5809	N	ALA	C	300	65.879	134.975	9.181	1.00 78.57	C
ATOM	5810	CA	ALA	C	300	65.192	134.493	10.372	1.00 78.57	C
ATOM	5811	CB	ALA	C	300	65.948	134.906	11.623	1.00 37.12	C
ATOM	5812	C	ALA	C	300	63.764	134.987	10.450	1.00 78.57	C
ATOM	5813	O	ALA	C	300	63.427	136.021	9.870	1.00 78.57	C
ATOM	5814	N	GLU	C	301	62.934	134.233	11.168	1.00100.07	C
ATOM	5815	CA	GLU	C	301	61.527	134.575	11.354	1.00100.07	C
ATOM	5816	CB	GLU	C	301	60.739	134.290	10.072	1.00 96.06	C
ATOM	5817	CG	GLU	C	301	59.407	135.016	9.988	1.00 96.06	C
ATOM	5818	CD	GLU	C	301	58.773	134.905	8.616	1.00 96.06	C
ATOM	5819	OE1	GLU	C	301	59.454	135.229	7.621	1.00 96.06	C
ATOM	5820	OE2	GLU	C	301	57.595	134.501	8.533	1.00 96.06	C
ATOM	5821	C	GLU	C	301	60.944	133.776	12.522	1.00100.07	C
ATOM	5822	O	GLU	C	301	59.741	133.840	12.796	1.00100.07	C
ATOM	5823	N	VAL	C	302	61.814	133.030	13.204	1.00 33.68	C
ATOM	5824	CA	VAL	C	302	61.427	132.210	14.351	1.00 33.68	C
ATOM	5825	CB	VAL	C	302	61.028	130.774	13.930	1.00 36.28	C
ATOM	5826	CG1	VAL	C	302	60.952	129.861	15.149	1.00 36.28	C
ATOM	5827	CG2	VAL	C	302	59.693	130.796	13.227	1.00 36.28	C
ATOM	5828	C	VAL	C	302	62.552	132.083	15.352	1.00 33.68	C
ATOM	5829	O	VAL	C	302	62.309	132.106	16.547	1.00 33.68	C
ATOM	5830	N	PHE	C	303	63.782	131.965	14.868	1.00 65.41	C
ATOM	5831	CA	PHE	C	303	64.914	131.789	15.763	1.00 65.41	C
ATOM	5832	CB	PHE	C	303	66.206	131.736	14.960	1.00 34.09	C
ATOM	5833	CG	PHE	C	303	66.554	130.360	14.558	1.00 34.09	C
ATOM	5834	CD1	PHE	C	303	66.046	129.814	13.399	1.00 34.09	C
ATOM	5835	CD2	PHE	C	303	67.264	129.545	15.420	1.00 34.09	C
ATOM	5836	CE1	PHE	C	303	66.229	128.465	13.104	1.00 34.09	C
ATOM	5837	CE2	PHE	C	303	67.453	128.191	15.136	1.00 34.09	C
ATOM	5838	CZ	PHE	C	303	66.931	127.653	13.976	1.00 34.09	C
ATOM	5839	C	PHE	C	303	65.059	132.718	16.966	1.00 65.41	C
ATOM	5840	O	PHE	C	303	64.229	132.676	17.881	1.00 65.41	C
ATOM	5841	N	LEU	C	304	66.109	133.539	16.991	1.00 61.39	C
ATOM	5842	CA	LEU	C	304	66.317	134.450	18.115	1.00 61.39	C

ATOM	5843	CB	LEU	C	304	67.266	135.588	17.751	1.00	60.59	C
ATOM	5844	CG	LEU	C	304	66.753	136.531	16.671	1.00	60.59	C
ATOM	5845	CD1	LEU	C	304	67.520	137.823	16.693	1.00	60.59	C
ATOM	5846	CD2	LEU	C	304	66.864	135.837	15.338	1.00	60.59	C
ATOM	5847	C	LEU	C	304	65.011	135.032	18.633	1.00	61.39	C
ATOM	5848	O	LEU	C	304	64.885	135.278	19.825	1.00	61.39	C
ATOM	5849	N	PRO	C	305	64.027	135.289	17.747	1.00	59.52	C
ATOM	5850	CD	PRO	C	305	63.954	135.319	16.274	1.00	50.13	C
ATOM	5851	CA	PRO	C	305	62.800	135.836	18.333	1.00	59.52	C
ATOM	5852	CB	PRO	C	305	61.814	135.839	17.147	1.00	50.13	C
ATOM	5853	CG	PRO	C	305	62.515	135.048	16.032	1.00	50.13	C
ATOM	5854	C	PRO	C	305	62.356	134.970	19.525	1.00	59.52	C
ATOM	5855	O	PRO	C	305	61.641	135.421	20.426	1.00	59.52	C
ATOM	5856	N	THR	C	306	62.809	133.722	19.509	1.00	78.49	C
ATOM	5857	CA	THR	C	306	62.549	132.777	20.580	1.00	78.49	C
ATOM	5858	CB	THR	C	306	62.677	131.321	20.098	1.00	57.87	C
ATOM	5859	OG1	THR	C	306	61.564	131.001	19.263	1.00	57.87	C
ATOM	5860	CG2	THR	C	306	62.705	130.361	21.268	1.00	57.87	C
ATOM	5861	C	THR	C	306	63.685	133.060	21.539	1.00	78.49	C
ATOM	5862	O	THR	C	306	63.474	133.359	22.715	1.00	78.49	C
ATOM	5863	N	LEU	C	307	64.899	132.965	21.002	1.00	55.35	C
ATOM	5864	CA	LEU	C	307	66.120	133.218	21.753	1.00	55.35	C
ATOM	5865	CB	LEU	C	307	67.262	133.478	20.762	1.00	34.85	C
ATOM	5866	CG	LEU	C	307	68.700	133.765	21.181	1.00	34.85	C
ATOM	5867	CD1	LEU	C	307	69.181	132.720	22.176	1.00	34.85	C
ATOM	5868	CD2	LEU	C	307	69.568	133.797	19.932	1.00	34.85	C
ATOM	5869	C	LEU	C	307	65.831	134.438	22.615	1.00	55.35	C
ATOM	5870	O	LEU	C	307	66.080	134.435	23.820	1.00	55.35	C
ATOM	5871	N	ARG	C	308	65.280	135.471	21.983	1.00	44.73	C
ATOM	5872	CA	ARG	C	308	64.905	136.692	22.672	1.00	44.73	C
ATOM	5873	CB	ARG	C	308	64.143	137.610	21.726	1.00	95.84	C
ATOM	5874	CG	ARG	C	308	63.347	138.700	22.417	1.00	95.84	C
ATOM	5875	CD	ARG	C	308	62.874	139.715	21.399	1.00	95.84	C
ATOM	5876	NE	ARG	C	308	62.047	139.105	20.361	1.00	95.84	C
ATOM	5877	CZ	ARG	C	308	62.205	139.314	19.057	1.00	95.84	C
ATOM	5878	NH1	ARG	C	308	63.164	140.116	18.613	1.00	95.84	C
ATOM	5879	NH2	ARG	C	308	61.392	138.731	18.193	1.00	95.84	C
ATOM	5880	C	ARG	C	308	64.001	136.283	23.818	1.00	44.73	C
ATOM	5881	O	ARG	C	308	64.323	136.512	24.982	1.00	44.73	C
ATOM	5882	N	TYR	C	309	62.879	135.657	23.468	1.00	45.25	C
ATOM	5883	CA	TYR	C	309	61.897	135.187	24.440	1.00	45.25	C
ATOM	5884	CB	TYR	C	309	60.753	134.461	23.723	1.00	43.04	C
ATOM	5885	CG	TYR	C	309	59.551	134.084	24.588	1.00	43.04	C
ATOM	5886	CD1	TYR	C	309	58.537	133.274	24.076	1.00	43.04	C
ATOM	5887	CE1	TYR	C	309	57.457	132.897	24.845	1.00	43.04	C
ATOM	5888	CD2	TYR	C	309	59.436	134.514	25.902	1.00	43.04	C
ATOM	5889	CE2	TYR	C	309	58.350	134.146	26.683	1.00	43.04	C
ATOM	5890	CZ	TYR	C	309	57.363	133.333	26.150	1.00	43.04	C
ATOM	5891	OH	TYR	C	309	56.285	132.945	26.925	1.00	43.04	C
ATOM	5892	C	TYR	C	309	62.503	134.268	25.497	1.00	45.25	C
ATOM	5893	O	TYR	C	309	61.970	134.170	26.595	1.00	45.25	C
ATOM	5894	N	LEU	C	310	63.602	133.587	25.185	1.00	57.81	C
ATOM	5895	CA	LEU	C	310	64.215	132.719	26.189	1.00	57.81	C
ATOM	5896	CB	LEU	C	310	65.342	131.868	25.590	1.00	33.86	C
ATOM	5897	CG	LEU	C	310	66.035	131.019	26.667	1.00	33.86	C
ATOM	5898	CD1	LEU	C	310	65.131	129.873	27.070	1.00	33.86	C
ATOM	5899	CD2	LEU	C	310	67.351	130.488	26.169	1.00	33.86	C
ATOM	5900	C	LEU	C	310	64.775	133.580	27.332	1.00	57.81	C
ATOM	5901	O	LEU	C	310	64.361	133.451	28.487	1.00	57.81	C
ATOM	5902	N	PHE	C	311	65.718	134.458	27.005	1.00	46.11	C
ATOM	5903	CA	PHE	C	311	66.313	135.338	27.997	1.00	46.11	C
ATOM	5904	CB	PHE	C	311	67.144	136.421	27.297	1.00	36.49	C
ATOM	5905	CG	PHE	C	311	68.366	135.893	26.587	1.00	36.49	C
ATOM	5906	CD1	PHE	C	311	69.079	136.701	25.709	1.00	36.49	C
ATOM	5907	CD2	PHE	C	311	68.828	134.596	26.815	1.00	36.49	C
ATOM	5908	CE1	PHE	C	311	70.235	136.226	25.060	1.00	36.49	C
ATOM	5909	CE2	PHE	C	311	69.989	134.110	26.166	1.00	36.49	C
ATOM	5910	CZ	PHE	C	311	70.689	134.932	25.295	1.00	36.49	C
ATOM	5911	C	PHE	C	311	65.194	135.974	28.825	1.00	46.11	C
ATOM	5912	O	PHE	C	311	65.212	135.929	30.056	1.00	46.11	C
ATOM	5913	N	ALA	C	312	64.211	136.548	28.137	1.00	65.23	C
ATOM	5914	CA	ALA	C	312	63.078	137.196	28.794	1.00	65.23	C
ATOM	5915	CB	ALA	C	312	62.204	137.902	27.761	1.00	88.15	C
ATOM	5916	C	ALA	C	312	62.237	136.197	29.586	1.00	65.23	C
ATOM	5917	O	ALA	C	312	61.073	136.466	29.900	1.00	65.23	C
ATOM	5918	N	LEU	C	313	62.832	135.045	29.886	1.00	36.75	C
ATOM	5919	CA	LEU	C	313	62.190	133.979	30.654	1.00	36.75	C
ATOM	5920	CB	LEU	C	313	61.676	132.868	29.718	1.00	36.31	C
ATOM	5921	CG	LEU	C	313	61.429	131.406	30.147	1.00	36.31	C
ATOM	5922	CD1	LEU	C	313	60.547	131.314	31.371	1.00	36.31	C
ATOM	5923	CD2	LEU	C	313	60.789	130.651	28.990	1.00	36.31	C
ATOM	5924	C	LEU	C	313	63.299	133.469	31.549	1.00	36.75	C
ATOM	5925	O	LEU	C	313	63.201	132.420	32.173	1.00	36.75	C
ATOM	5926	N	THR	C	314	64.369	134.244	31.601	1.00	37.84	C

ATOM	5927	CA	THR	C	314	65.520	133.903	32.413	1.00	37.84	C
ATOM	5928	CB	THR	C	314	66.764	133.782	31.528	1.00	42.48	C
ATOM	5929	OG1	THR	C	314	66.361	133.433	30.197	1.00	42.48	C
ATOM	5930	CG2	THR	C	314	67.693	132.702	32.057	1.00	42.48	C
ATOM	5931	C	THR	C	314	65.699	135.037	33.420	1.00	37.84	C
ATOM	5932	O	THR	C	314	66.753	135.168	34.053	1.00	37.84	C
ATOM	5933	N	ALA	C	315	64.645	135.851	33.541	1.00	99.46	C
ATOM	5934	CA	ALA	C	315	64.583	137.009	34.443	1.00	99.46	C
ATOM	5935	CB	ALA	C	315	65.806	137.909	34.228	1.00	90.21	C
ATOM	5936	C	ALA	C	315	63.286	137.816	34.214	1.00	99.46	C
ATOM	5937	O	ALA	C	315	62.393	137.820	35.062	1.00	99.46	C
ATOM	5938	N	GLY	C	316	63.212	138.480	33.056	1.00	46.37	C
ATOM	5939	CA	GLY	C	316	62.078	139.307	32.640	1.00	46.37	C
ATOM	5940	C	GLY	C	316	60.711	139.226	33.301	1.00	46.37	C
ATOM	5941	O	GLY	C	316	60.598	139.102	34.512	1.00	46.37	C
ATOM	5942	N	VAL	C	317	59.659	139.311	32.492	1.00	94.07	C
ATOM	5943	CA	VAL	C	317	58.294	139.273	33.007	1.00	94.07	C
ATOM	5944	CB	VAL	C	317	57.619	140.651	32.831	1.00	37.23	C
ATOM	5945	CG1	VAL	C	317	56.113	140.546	33.042	1.00	37.23	C
ATOM	5946	CG2	VAL	C	317	58.211	141.622	33.821	1.00	37.23	C
ATOM	5947	C	VAL	C	317	57.372	138.182	32.443	1.00	94.07	C
ATOM	5948	O	VAL	C	317	56.591	137.592	33.198	1.00	94.07	C
ATOM	5949	N	PRO	C	318	57.443	137.894	31.121	1.00	100.07	C
ATOM	5950	CD	PRO	C	318	58.415	138.347	30.106	1.00	86.80	C
ATOM	5951	CA	PRO	C	318	56.568	136.853	30.563	1.00	100.07	C
ATOM	5952	CB	PRO	C	318	56.898	136.884	29.072	1.00	86.80	C
ATOM	5953	CG	PRO	C	318	58.347	137.242	29.064	1.00	86.80	C
ATOM	5954	C	PRO	C	318	56.861	135.496	31.199	1.00	100.07	C
ATOM	5955	O	PRO	C	318	55.947	134.746	31.544	1.00	100.07	C
ATOM	5956	N	GLY	C	319	58.145	135.193	31.356	1.00	77.43	C
ATOM	5957	CA	GLY	C	319	58.533	133.938	31.964	1.00	77.43	C
ATOM	5958	C	GLY	C	319	57.845	132.752	31.331	1.00	77.43	C
ATOM	5959	O	GLY	C	319	58.306	132.243	30.310	1.00	77.43	C
ATOM	5960	N	HIS	C	320	56.727	132.328	31.914	1.00	37.14	C
ATOM	5961	CA	HIS	C	320	56.018	131.166	31.395	1.00	37.14	C
ATOM	5962	CB	HIS	C	320	55.453	131.420	29.988	1.00	100.07	C
ATOM	5963	CG	HIS	C	320	54.381	132.465	29.920	1.00	100.07	C
ATOM	5964	CD2	HIS	C	320	54.251	133.553	29.123	1.00	100.07	C
ATOM	5965	ND1	HIS	C	320	53.237	132.416	30.689	1.00	100.07	C
ATOM	5966	CE1	HIS	C	320	52.448	133.427	30.366	1.00	100.07	C
ATOM	5967	NE2	HIS	C	320	53.041	134.131	29.418	1.00	100.07	C
ATOM	5968	C	HIS	C	320	57.066	130.060	31.285	1.00	37.14	C
ATOM	5969	O	HIS	C	320	57.671	129.871	30.229	1.00	37.14	C
ATOM	5970	N	GLU	C	321	57.316	129.351	32.375	1.00	67.45	C
ATOM	5971	CA	GLU	C	321	58.284	128.273	32.322	1.00	67.45	C
ATOM	5972	CB	GLU	C	321	58.701	127.843	33.732	1.00	100.07	C
ATOM	5973	CG	GLU	C	321	59.628	128.825	34.461	1.00	100.07	C
ATOM	5974	CD	GLU	C	321	59.757	128.532	35.963	1.00	100.07	C
ATOM	5975	OE1	GLU	C	321	58.746	128.684	36.681	1.00	100.07	C
ATOM	5976	OE2	GLU	C	321	60.858	128.150	36.428	1.00	100.07	C
ATOM	5977	C	GLU	C	321	57.566	127.136	31.623	1.00	67.45	C
ATOM	5978	O	GLU	C	321	57.979	125.990	31.735	1.00	67.45	C
ATOM	5979	N	VAL	C	322	56.491	127.474	30.904	1.00	58.94	C
ATOM	5980	CA	VAL	C	322	55.655	126.512	30.168	1.00	58.94	C
ATOM	5981	CB	VAL	C	322	55.035	127.144	28.879	1.00	62.46	C
ATOM	5982	CG1	VAL	C	322	56.125	127.660	27.963	1.00	62.46	C
ATOM	5983	CG2	VAL	C	322	54.192	126.109	28.139	1.00	62.46	C
ATOM	5984	C	VAL	C	322	56.349	125.218	29.760	1.00	58.94	C
ATOM	5985	O	VAL	C	322	57.447	125.230	29.192	1.00	58.94	C
ATOM	5986	N	ALA	C	323	55.686	124.103	30.051	1.00	99.69	C
ATOM	5987	CA	ALA	C	323	56.207	122.778	29.729	1.00	99.69	C
ATOM	5988	CB	ALA	C	323	57.113	122.273	30.868	1.00	65.57	C
ATOM	5989	C	ALA	C	323	55.017	121.845	29.550	1.00	99.69	C
ATOM	5990	O	ALA	C	323	54.364	121.490	30.532	1.00	99.69	C
ATOM	5991	N	ASP	C	324	54.724	121.451	28.311	1.00	55.65	C
ATOM	5992	CA	ASP	C	324	53.584	120.581	28.076	1.00	55.65	C
ATOM	5993	CB	ASP	C	324	53.814	119.223	28.756	1.00	50.97	C
ATOM	5994	CG	ASP	C	324	52.518	118.577	29.260	1.00	50.97	C
ATOM	5995	OD1	ASP	C	324	51.850	119.149	30.142	1.00	50.97	C
ATOM	5996	OD2	ASP	C	324	52.163	117.486	28.784	1.00	50.97	C
ATOM	5997	C	ASP	C	324	52.351	121.272	28.659	1.00	55.65	C
ATOM	5998	O	ASP	C	324	51.217	120.823	28.457	1.00	55.65	C
ATOM	5999	N	ALA	C	325	52.592	122.374	29.370	1.00	100.07	C
ATOM	6000	CA	ALA	C	325	51.546	123.156	30.018	1.00	100.07	C
ATOM	6001	CB	ALA	C	325	50.528	123.623	28.982	1.00	100.07	C
ATOM	6002	C	ALA	C	325	50.859	122.316	31.092	1.00	100.07	C
ATOM	6003	O	ALA	C	325	50.878	122.644	32.284	1.00	100.07	C
ATOM	6004	N	ALA	C	326	50.252	121.227	30.636	1.00	100.07	C
ATOM	6005	CA	ALA	C	326	49.545	120.273	31.475	1.00	100.07	C
ATOM	6006	CB	ALA	C	326	48.507	120.981	32.345	1.00	100.07	C
ATOM	6007	C	ALA	C	326	48.861	119.364	30.479	1.00	100.07	C
ATOM	6008	O	ALA	C	326	47.672	119.090	30.602	1.00	100.07	C
ATOM	6009	N	ALA	C	327	49.618	118.909	29.483	1.00	83.77	C
ATOM	6010	CA	ALA	C	327	49.062	118.059	28.439	1.00	83.77	C

FOR THE

ATOM	6011	CB	ALA	C	327	48.566	116.742	29.035	1.00	100.07	C
ATOM	6012	C	ALA	C	327	47.896	118.882	27.915	1.00	83.77	C
ATOM	6013	O	ALA	C	327	46.886	118.358	27.413	1.00	83.77	C
ATOM	6014	N	LEU	C	328	48.066	120.193	28.049	1.00	42.59	C
ATOM	6015	CA	LEU	C	328	47.050	121.145	27.666	1.00	42.59	C
ATOM	6016	CB	LEU	C	328	47.357	122.477	28.361	1.00	39.91	C
ATOM	6017	CG	LEU	C	328	46.236	123.450	28.735	1.00	39.91	C
ATOM	6018	CD1	LEU	C	328	44.939	122.754	29.142	1.00	39.91	C
ATOM	6019	CD2	LEU	C	328	46.753	124.267	29.879	1.00	39.91	C
ATOM	6020	C	LEU	C	328	46.947	121.304	26.152	1.00	42.59	C
ATOM	6021	O	LEU	C	328	46.797	120.320	25.413	1.00	42.59	C
ATOM	6022	N	GLY	C	329	46.991	122.551	25.694	1.00	100.07	C
ATOM	6023	CA	GLY	C	329	46.926	122.817	24.270	1.00	100.07	C
ATOM	6024	C	GLY	C	329	48.262	122.387	23.719	1.00	100.07	C
ATOM	6025	O	GLY	C	329	48.749	122.908	22.718	1.00	100.07	C
ATOM	6026	N	ASN	C	330	48.860	121.432	24.418	1.00	28.65	C
ATOM	6027	CA	ASN	C	330	50.146	120.883	24.055	1.00	28.65	C
ATOM	6028	CB	ASN	C	330	51.213	121.388	25.021	1.00	44.56	C
ATOM	6029	CG	ASN	C	330	51.338	122.912	25.021	1.00	44.56	C
ATOM	6030	OD1	ASN	C	330	51.807	123.496	26.001	1.00	44.56	C
ATOM	6031	ND2	ASN	C	330	50.935	123.557	23.926	1.00	44.56	C
ATOM	6032	C	ASN	C	330	50.033	119.363	24.116	1.00	28.65	C
ATOM	6033	O	ASN	C	330	50.403	118.721	25.109	1.00	28.65	C
ATOM	6034	N	ALA	C	331	49.503	118.802	23.034	1.00	20.61	C
ATOM	6035	CA	ALA	C	331	49.316	117.367	22.934	1.00	20.61	C
ATOM	6036	CB	ALA	C	331	48.399	116.895	24.066	1.00	5.07	C
ATOM	6037	C	ALA	C	331	48.740	116.969	21.565	1.00	20.61	C
ATOM	6038	O	ALA	C	331	47.548	116.694	21.429	1.00	20.61	C
ATOM	6039	N	ALA	C	332	49.589	116.930	20.547	1.00	100.07	C
ATOM	6040	CA	ALA	C	332	49.106	116.575	19.218	1.00	100.07	C
ATOM	6041	CB	ALA	C	332	50.079	117.058	18.141	1.00	71.55	C
ATOM	6042	C	ALA	C	332	48.852	115.081	19.061	1.00	100.07	C
ATOM	6043	O	ALA	C	332	49.709	114.250	19.357	1.00	100.07	C
ATOM	6044	N	ILE	C	333	47.652	114.759	18.594	1.00	69.05	C
ATOM	6045	CA	ILE	C	333	47.227	113.387	18.361	1.00	69.05	C
ATOM	6046	CB	ILE	C	333	45.710	113.268	18.608	1.00	45.11	C
ATOM	6047	CG2	ILE	C	333	45.224	111.888	18.289	1.00	45.11	C
ATOM	6048	CG1	ILE	C	333	45.407	113.544	20.075	1.00	45.11	C
ATOM	6049	CD	ILE	C	333	45.688	112.362	20.972	1.00	45.11	C
ATOM	6050	C	ILE	C	333	47.546	112.994	16.916	1.00	69.05	C
ATOM	6051	O	ILE	C	333	47.965	113.823	16.103	1.00	69.05	C
ATOM	6052	N	ARG	C	334	47.368	111.719	16.610	1.00	26.87	C
ATOM	6053	CA	ARG	C	334	47.610	111.214	15.270	1.00	26.87	C
ATOM	6054	CB	ARG	C	334	49.059	110.751	15.117	1.00	28.56	C
ATOM	6055	CG	ARG	C	334	49.983	111.909	14.867	1.00	28.56	C
ATOM	6056	CD	ARG	C	334	51.142	111.584	13.941	1.00	28.56	C
ATOM	6057	NE	ARG	C	334	52.127	110.690	14.528	1.00	28.56	C
ATOM	6058	CZ	ARG	C	334	53.219	110.295	13.884	1.00	28.56	C
ATOM	6059	NH1	ARG	C	334	53.451	110.722	12.651	1.00	28.56	C
ATOM	6060	NH2	ARG	C	334	54.069	109.453	14.453	1.00	28.56	C
ATOM	6061	C	ARG	C	334	46.668	110.084	14.910	1.00	26.87	C
ATOM	6062	O	ARG	C	334	46.963	108.913	15.132	1.00	26.87	C
ATOM	6063	N	THR	C	335	45.513	110.437	14.375	1.00	43.35	C
ATOM	6064	CA	THR	C	335	44.591	109.407	13.977	1.00	43.35	C
ATOM	6065	CB	THR	C	335	43.301	110.013	13.380	1.00	44.39	C
ATOM	6066	OG1	THR	C	335	43.574	111.329	12.886	1.00	44.39	C
ATOM	6067	CG2	THR	C	335	42.208	110.089	14.438	1.00	44.39	C
ATOM	6068	C	THR	C	335	45.331	108.568	12.931	1.00	43.35	C
ATOM	6069	O	THR	C	335	46.145	109.092	12.162	1.00	43.35	C
ATOM	6070	N	VAL	C	336	45.075	107.262	12.943	1.00	9.90	C
ATOM	6071	CA	VAL	C	336	45.686	106.327	12.011	1.00	9.90	C
ATOM	6072	CB	VAL	C	336	44.735	105.196	11.684	1.00	10.63	C
ATOM	6073	CG1	VAL	C	336	45.434	104.171	10.854	1.00	10.63	C
ATOM	6074	CG2	VAL	C	336	44.197	104.601	12.952	1.00	10.63	C
ATOM	6075	C	VAL	C	336	46.002	107.039	10.722	1.00	9.90	C
ATOM	6076	O	VAL	C	336	47.115	106.971	10.223	1.00	9.90	C
ATOM	6077	N	GLY	C	337	45.002	107.736	10.195	1.00	33.04	C
ATOM	6078	CA	GLY	C	337	45.183	108.453	8.951	1.00	33.04	C
ATOM	6079	C	GLY	C	337	46.562	109.058	8.856	1.00	33.04	C
ATOM	6080	O	GLY	C	337	47.302	108.818	7.904	1.00	33.04	C
ATOM	6081	N	GLU	C	338	46.904	109.837	9.871	1.00	39.99	C
ATOM	6082	CA	GLU	C	338	48.191	110.493	9.937	1.00	39.99	C
ATOM	6083	CB	GLU	C	338	48.255	111.322	11.226	1.00	46.47	C
ATOM	6084	CG	GLU	C	338	48.869	112.717	11.109	1.00	46.47	C
ATOM	6085	CD	GLU	C	338	48.639	113.553	12.368	1.00	46.47	C
ATOM	6086	OE1	GLU	C	338	49.372	114.537	12.587	1.00	46.47	C
ATOM	6087	OE2	GLU	C	338	47.716	113.235	13.146	1.00	46.47	C
ATOM	6088	C	GLU	C	338	49.319	109.445	9.889	1.00	39.99	C
ATOM	6089	O	GLU	C	338	50.140	109.477	8.973	1.00	39.99	C
ATOM	6090	N	LEU	C	339	49.342	108.508	10.846	1.00	16.83	C
ATOM	6091	CA	LEU	C	339	50.393	107.475	10.909	1.00	16.83	C
ATOM	6092	CB	LEU	C	339	50.096	106.439	12.002	1.00	9.52	C
ATOM	6093	CG	LEU	C	339	49.716	106.874	13.429	1.00	9.52	C
ATOM	6094	CD1	LEU	C	339	48.216	107.139	13.435	1.00	9.52	C

ATOM	6095	CD2	LEU	C	339	50.064	105.799	14.488	1.00	9.52	C
ATOM	6096	C	LEU	C	339	50.606	106.724	9.597	1.00	16.83	C
ATOM	6097	O	LEU	C	339	51.731	106.624	9.101	1.00	16.83	C
ATOM	6098	N	MET	C	340	49.522	106.175	9.053	1.00	35.16	C
ATOM	6099	CA	MET	C	340	49.557	105.431	7.795	1.00	35.16	C
ATOM	6100	CB	MET	C	340	48.144	104.929	7.466	1.00	52.11	C
ATOM	6101	CG	MET	C	340	47.974	104.323	6.086	1.00	52.11	C
ATOM	6102	SD	MET	C	340	48.305	105.523	4.786	1.00	52.11	C
ATOM	6103	CE	MET	C	340	47.118	106.781	5.204	1.00	52.11	C
ATOM	6104	C	MET	C	340	50.076	106.365	6.702	1.00	35.16	C
ATOM	6105	O	MET	C	340	50.874	105.978	5.841	1.00	35.16	C
ATOM	6106	N	ALA	C	341	49.598	107.600	6.742	1.00	35.96	C
ATOM	6107	CA	ALA	C	341	50.016	108.602	5.791	1.00	35.96	C
ATOM	6108	CB	ALA	C	341	49.380	109.924	6.127	1.00	14.91	C
ATOM	6109	C	ALA	C	341	51.529	108.713	5.880	1.00	35.96	C
ATOM	6110	O	ALA	C	341	52.225	108.387	4.925	1.00	35.96	C
ATOM	6111	N	ASP	C	342	52.035	109.163	7.029	1.00	42.69	C
ATOM	6112	CA	ASP	C	342	53.475	109.309	7.235	1.00	42.69	C
ATOM	6113	CB	ASP	C	342	53.801	109.389	8.727	1.00	55.31	C
ATOM	6114	CG	ASP	C	342	53.325	110.682	9.358	1.00	55.31	C
ATOM	6115	OD1	ASP	C	342	53.634	111.752	8.798	1.00	55.31	C
ATOM	6116	OD2	ASP	C	342	52.650	110.635	10.411	1.00	55.31	C
ATOM	6117	C	ASP	C	342	54.276	108.169	6.613	1.00	42.69	C
ATOM	6118	O	ASP	C	342	55.328	108.395	6.004	1.00	42.69	C
ATOM	6119	N	GLN	C	343	53.774	106.947	6.763	1.00	63.10	C
ATOM	6120	CA	GLN	C	343	54.445	105.777	6.212	1.00	63.10	C
ATOM	6121	CB	GLN	C	343	53.656	104.520	6.536	1.00	61.98	C
ATOM	6122	CG	GLN	C	343	54.535	103.434	7.111	1.00	61.98	C
ATOM	6123	CD	GLN	C	343	55.534	103.969	8.134	1.00	61.98	C
ATOM	6124	OE1	GLN	C	343	55.155	104.570	9.150	1.00	61.98	C
ATOM	6125	NE2	GLN	C	343	56.821	103.754	7.866	1.00	61.98	C
ATOM	6126	C	GLN	C	343	54.616	105.921	4.713	1.00	63.10	C
ATOM	6127	O	GLN	C	343	55.556	105.392	4.137	1.00	63.10	C
ATOM	6128	N	PHE	C	344	53.689	106.628	4.083	1.00	69.38	C
ATOM	6129	CA	PHE	C	344	53.780	106.884	2.657	1.00	69.38	C
ATOM	6130	CB	PHE	C	344	52.519	107.573	2.141	1.00	29.38	C
ATOM	6131	CG	PHE	C	344	51.854	106.863	1.006	1.00	29.38	C
ATOM	6132	CD1	PHE	C	344	50.631	107.304	0.532	1.00	29.38	C
ATOM	6133	CD2	PHE	C	344	52.417	105.722	0.449	1.00	29.38	C
ATOM	6134	CE1	PHE	C	344	49.971	106.616	-0.476	1.00	29.38	C
ATOM	6135	CE2	PHE	C	344	51.766	105.018	-0.564	1.00	29.38	C
ATOM	6136	CZ	PHE	C	344	50.540	105.464	-1.029	1.00	29.38	C
ATOM	6137	C	PHE	C	344	54.935	107.858	2.545	1.00	69.38	C
ATOM	6138	O	PHE	C	344	55.911	107.602	1.839	1.00	69.38	C
ATOM	6139	N	ARG	C	345	54.803	108.983	3.252	1.00	63.64	C
ATOM	6140	CA	ARG	C	345	55.827	110.016	3.260	1.00	63.64	C
ATOM	6141	CB	ARG	C	345	55.636	110.950	4.456	1.00	50.37	C
ATOM	6142	CG	ARG	C	345	54.277	111.641	4.500	1.00	50.37	C
ATOM	6143	CD	ARG	C	345	53.992	112.212	5.892	1.00	50.37	C
ATOM	6144	NE	ARG	C	345	52.564	112.431	6.141	1.00	50.37	C
ATOM	6145	CZ	ARG	C	345	51.892	113.525	5.795	1.00	50.37	C
ATOM	6146	NH1	ARG	C	345	52.507	114.526	5.179	1.00	50.37	C
ATOM	6147	NH2	ARG	C	345	50.602	113.623	6.076	1.00	50.37	C
ATOM	6148	C	ARG	C	345	57.140	109.270	3.375	1.00	63.64	C
ATOM	6149	O	ARG	C	345	58.081	109.529	2.630	1.00	63.64	C
ATOM	6150	N	VAL	C	346	57.179	108.313	4.297	1.00	64.40	C
ATOM	6151	CA	VAL	C	346	58.367	107.494	4.507	1.00	64.40	C
ATOM	6152	CB	VAL	C	346	58.214	106.589	5.743	1.00	100.07	C
ATOM	6153	CG1	VAL	C	346	59.487	105.781	5.948	1.00	100.07	C
ATOM	6154	CG2	VAL	C	346	57.908	107.423	6.970	1.00	100.07	C
ATOM	6155	C	VAL	C	346	58.600	106.588	3.298	1.00	64.40	C
ATOM	6156	O	VAL	C	346	59.740	106.331	2.906	1.00	64.40	C
ATOM	6157	N	GLY	C	347	57.505	106.096	2.725	1.00	21.03	C
ATOM	6158	CA	GLY	C	347	57.595	105.221	1.579	1.00	21.03	C
ATOM	6159	C	GLY	C	347	58.234	105.932	0.414	1.00	21.03	C
ATOM	6160	O	GLY	C	347	59.384	105.656	0.064	1.00	21.03	C
ATOM	6161	N	LEU	C	348	57.481	106.848	-0.187	1.00	55.93	C
ATOM	6162	CA	LEU	C	348	57.953	107.615	-1.327	1.00	55.93	C
ATOM	6163	CB	LEU	C	348	57.077	108.850	-1.524	1.00	33.94	C
ATOM	6164	CG	LEU	C	348	55.662	108.617	-2.052	1.00	33.94	C
ATOM	6165	CD1	LEU	C	348	54.842	107.776	-1.083	1.00	33.94	C
ATOM	6166	CD2	LEU	C	348	55.004	109.971	-2.263	1.00	33.94	C
ATOM	6167	C	LEU	C	348	59.402	108.030	-1.116	1.00	55.93	C
ATOM	6168	O	LEU	C	348	60.152	108.230	-2.071	1.00	55.93	C
ATOM	6169	N	ALA	C	349	59.789	108.147	0.151	1.00	98.46	C
ATOM	6170	CA	ALA	C	349	61.149	108.530	0.516	1.00	98.46	C
ATOM	6171	CB	ALA	C	349	61.304	108.533	2.039	1.00	100.07	C
ATOM	6172	C	ALA	C	349	62.175	107.593	-0.113	1.00	98.46	C
ATOM	6173	O	ALA	C	349	63.357	107.926	-0.209	1.00	98.46	C
ATOM	6174	N	ARG	C	350	61.726	106.417	-0.535	1.00	29.60	C
ATOM	6175	CA	ARG	C	350	62.637	105.482	-1.159	1.00	29.60	C
ATOM	6176	CB	ARG	C	350	62.231	104.039	-0.870	1.00	100.07	C
ATOM	6177	CG	ARG	C	350	63.181	103.028	-1.506	1.00	100.07	C
ATOM	6178	CD	ARG	C	350	62.729	101.594	-1.289	1.00	100.07	C

ATOM	6179	NE	ARG	C	350	63.506	100.653	-2.091	1.00100.07	C
ATOM	6180	CZ	ARG	C	350	63.147	99.395	-2.328	1.00100.07	C
ATOM	6181	NH1	ARG	C	350	62.011	98.917	-1.825	1.00100.07	C
ATOM	6182	NH2	ARG	C	350	63.931	98.616	-3.068	1.00100.07	C
ATOM	6183	C	ARG	C	350	62.722	105.701	-2.669	1.00 29.60	C
ATOM	6184	O	ARG	C	350	63.713	106.255	-3.151	1.00 29.60	C
ATOM	6185	N	LEU	C	351	61.697	105.282	-3.413	1.00 85.61	C
ATOM	6186	CA	LEU	C	351	61.717	105.445	-4.867	1.00 85.61	C
ATOM	6187	CB	LEU	C	351	60.315	105.339	-5.477	1.00 22.25	C
ATOM	6188	CG	LEU	C	351	59.479	106.627	-5.477	1.00 22.25	C
ATOM	6189	CD1	LEU	C	351	58.370	106.525	-6.500	1.00 22.25	C
ATOM	6190	CD2	LEU	C	351	58.915	106.879	-4.091	1.00 22.25	C
ATOM	6191	C	LEU	C	351	62.285	106.813	-5.203	1.00 85.61	C
ATOM	6192	O	LEU	C	351	62.921	106.992	-6.239	1.00 85.61	C
ATOM	6193	N	ALA	C	352	62.033	107.781	-4.325	1.00 59.25	C
ATOM	6194	CA	ALA	C	352	62.541	109.128	-4.523	1.00 59.25	C
ATOM	6195	CB	ALA	C	352	62.459	109.908	-3.223	1.00100.07	C
ATOM	6196	C	ALA	C	352	63.990	108.975	-4.966	1.00 59.25	C
ATOM	6197	O	ALA	C	352	64.339	109.302	-6.098	1.00 59.25	C
ATOM	6198	N	ARG	C	353	64.825	108.455	-4.070	1.00 45.38	C
ATOM	6199	CA	ARG	C	353	66.228	108.234	-4.382	1.00 45.38	C
ATOM	6200	CB	ARG	C	353	66.905	107.463	-3.255	1.00100.07	C
ATOM	6201	CG	ARG	C	353	68.038	108.201	-2.586	1.00100.07	C
ATOM	6202	CD	ARG	C	353	67.540	109.352	-1.730	1.00100.07	C
ATOM	6203	NE	ARG	C	353	68.628	109.920	-0.938	1.00100.07	C
ATOM	6204	CZ	ARG	C	353	68.484	110.884	-0.035	1.00100.07	C
ATOM	6205	NH1	ARG	C	353	67.285	111.403	0.204	1.00100.07	C
ATOM	6206	NH2	ARG	C	353	69.543	111.325	0.633	1.00100.07	C
ATOM	6207	C	ARG	C	353	66.252	107.394	-5.644	1.00 45.38	C
ATOM	6208	O	ARG	C	353	67.009	107.659	-6.575	1.00 45.38	C
ATOM	6209	N	GLY	C	354	65.397	106.379	-5.661	1.00 74.85	C
ATOM	6210	CA	GLY	C	354	65.314	105.487	-6.799	1.00 74.85	C
ATOM	6211	C	GLY	C	354	64.899	106.175	-8.082	1.00 74.85	C
ATOM	6212	O	GLY	C	354	64.875	105.542	-9.134	1.00 74.85	C
ATOM	6213	N	VAL	C	355	64.550	107.457	-8.018	1.00 59.81	C
ATOM	6214	CA	VAL	C	355	64.167	108.164	-9.236	1.00 59.81	C
ATOM	6215	CB	VAL	C	355	63.149	109.304	-8.970	1.00 34.18	C
ATOM	6216	CG1	VAL	C	355	63.878	110.644	-8.773	1.00 34.18	C
ATOM	6217	CG2	VAL	C	355	62.153	109.374	-10.120	1.00 34.18	C
ATOM	6218	C	VAL	C	355	65.446	108.739	-9.842	1.00 59.81	C
ATOM	6219	O	VAL	C	355	65.691	108.595	-11.035	1.00 59.81	C
ATOM	6220	N	ARG	C	356	66.268	109.382	-9.018	1.00 74.77	C
ATOM	6221	CA	ARG	C	356	67.523	109.916	-9.513	1.00 74.77	C
ATOM	6222	CB	ARG	C	356	68.282	110.649	-8.398	1.00100.07	C
ATOM	6223	CG	ARG	C	356	67.593	111.935	-7.890	1.00100.07	C
ATOM	6224	CD	ARG	C	356	68.564	112.821	-7.076	1.00100.07	C
ATOM	6225	NE	ARG	C	356	67.955	114.049	-6.546	1.00100.07	C
ATOM	6226	CZ	ARG	C	356	68.616	114.979	-5.857	1.00100.07	C
ATOM	6227	NH1	ARG	C	356	69.910	114.833	-5.612	1.00100.07	C
ATOM	6228	NH2	ARG	C	356	67.985	116.055	-5.405	1.00100.07	C
ATOM	6229	C	ARG	C	356	68.304	108.693	-10.014	1.00 74.77	C
ATOM	6230	O	ARG	C	356	69.253	108.813	-10.784	1.00 74.77	C
ATOM	6231	N	GLU	C	357	67.869	107.514	-9.575	1.00 67.64	C
ATOM	6232	CA	GLU	C	357	68.463	106.239	-9.971	1.00 67.64	C
ATOM	6233	CB	GLU	C	357	67.613	105.082	-9.416	1.00 99.66	C
ATOM	6234	CG	GLU	C	357	67.872	103.684	-10.033	1.00 99.66	C
ATOM	6235	CD	GLU	C	357	66.706	103.150	-10.879	1.00 99.66	C
ATOM	6236	OE1	GLU	C	357	66.743	101.958	-11.258	1.00 99.66	C
ATOM	6237	OE2	GLU	C	357	65.760	103.914	-11.166	1.00 99.66	C
ATOM	6238	C	GLU	C	357	68.533	106.125	-11.491	1.00 67.64	C
ATOM	6239	O	GLU	C	357	69.540	106.482	-12.109	1.00 67.64	C
ATOM	6240	N	ALA	C	358	67.452	105.613	-12.078	1.00 90.74	C
ATOM	6241	CA	ALA	C	358	67.349	105.437	-13.520	1.00 90.74	C
ATOM	6242	CB	ALA	C	358	66.112	104.623	-13.861	1.00 25.37	C
ATOM	6243	C	ALA	C	358	67.267	106.812	-14.156	1.00 90.74	C
ATOM	6244	O	ALA	C	358	67.279	106.951	-15.376	1.00 90.74	C
ATOM	6245	N	MET	C	359	67.167	107.826	-13.304	1.00 78.14	C
ATOM	6246	CA	MET	C	359	67.112	109.204	-13.756	1.00 78.14	C
ATOM	6247	CB	MET	C	359	67.267	110.160	-12.568	1.00 74.02	C
ATOM	6248	CG	MET	C	359	66.745	111.570	-12.777	1.00 74.02	C
ATOM	6249	SD	MET	C	359	64.977	111.670	-12.459	1.00 74.02	C
ATOM	6250	CE	MET	C	359	64.287	111.107	-14.064	1.00 74.02	C
ATOM	6251	C	MET	C	359	68.329	109.323	-14.655	1.00 78.14	C
ATOM	6252	O	MET	C	359	68.242	109.112	-15.864	1.00 78.14	C
ATOM	6253	N	VAL	C	360	69.471	109.627	-14.043	1.00 84.79	C
ATOM	6254	CA	VAL	C	360	70.715	109.782	-14.776	1.00 84.79	C
ATOM	6255	CB	VAL	C	360	71.879	110.153	-13.848	1.00 40.83	C
ATOM	6256	CG1	VAL	C	360	73.122	110.454	-14.678	1.00 40.83	C
ATOM	6257	CG2	VAL	C	360	71.508	111.351	-13.005	1.00 40.83	C
ATOM	6258	C	VAL	C	360	71.068	108.493	-15.490	1.00 84.79	C
ATOM	6259	O	VAL	C	360	70.723	108.311	-16.658	1.00 84.79	C
ATOM	6260	N	MET	C	361	71.765	107.601	-14.794	1.00 64.36	C
ATOM	6261	CA	MET	C	361	72.144	106.333	-15.392	1.00 64.36	C
ATOM	6262	CB	MET	C	361	72.657	105.380	-14.315	1.00100.07	C

ATOM	6263	CG	MET	C	361	72.980	103.976	-14.808	1.00100.07	C
ATOM	6264	SD	MET	C	361	71.516	103.001	-15.211	1.00100.07	C
ATOM	6265	CE	MET	C	361	71.038	102.450	-13.616	1.00100.07	C
ATOM	6266	C	MET	C	361	70.890	105.771	-16.042	1.00 64.36	C
ATOM	6267	O	MET	C	361	69.960	105.354	-15.345	1.00 64.36	C
ATOM	6268	N	GLY	C	362	70.853	105.783	-17.374	1.00 40.07	C
ATOM	6269	CA	GLY	C	362	69.687	105.269	-18.075	1.00 40.07	C
ATOM	6270	C	GLY	C	362	69.531	105.835	-19.468	1.00 40.07	C
ATOM	6271	O	GLY	C	362	70.290	106.724	-19.856	1.00 40.07	C
ATOM	6272	N	SER	C	363	68.543	105.326	-20.209	1.00 66.93	C
ATOM	6273	CA	SER	C	363	68.272	105.750	-21.590	1.00 66.93	C
ATOM	6274	CB	SER	C	363	67.563	104.629	-22.355	1.00100.07	C
ATOM	6275	OG	SER	C	363	67.247	105.034	-23.676	1.00100.07	C
ATOM	6276	C	SER	C	363	67.432	107.021	-21.678	1.00 66.93	C
ATOM	6277	O	SER	C	363	66.202	106.966	-21.709	1.00 66.93	C
ATOM	6278	N	PRO	C	364	68.097	108.181	-21.773	1.00 63.54	C
ATOM	6279	CD	PRO	C	364	69.500	108.289	-22.209	1.00 93.74	C
ATOM	6280	CA	PRO	C	364	67.436	109.487	-21.856	1.00 63.54	C
ATOM	6281	CB	PRO	C	364	68.535	110.390	-22.425	1.00 93.74	C
ATOM	6282	CG	PRO	C	364	69.431	109.431	-23.172	1.00 93.74	C
ATOM	6283	C	PRO	C	364	66.124	109.562	-22.651	1.00 63.54	C
ATOM	6284	O	PRO	C	364	65.233	110.345	-22.302	1.00 63.54	C
ATOM	6285	N	ASP	C	365	65.998	108.754	-23.704	1.00 99.87	C
ATOM	6286	CA	ASP	C	365	64.785	108.774	-24.525	1.00 99.87	C
ATOM	6287	CB	ASP	C	365	65.149	108.753	-26.020	1.00100.07	C
ATOM	6288	CG	ASP	C	365	64.028	109.302	-26.917	1.00100.07	C
ATOM	6289	OD1	ASP	C	365	64.179	109.263	-28.161	1.00100.07	C
ATOM	6290	OD2	ASP	C	365	62.999	109.781	-26.385	1.00100.07	C
ATOM	6291	C	ASP	C	365	63.842	107.610	-24.204	1.00 99.87	C
ATOM	6292	O	ASP	C	365	62.645	107.666	-24.505	1.00 99.87	C
ATOM	6293	N	THR	C	366	64.376	106.558	-23.595	1.00100.07	C
ATOM	6294	CA	THR	C	366	63.553	105.408	-23.247	1.00100.07	C
ATOM	6295	CB	THR	C	366	64.290	104.088	-23.523	1.00 81.24	C
ATOM	6296	OG1	THR	C	366	64.670	104.036	-24.905	1.00 81.24	C
ATOM	6297	CG2	THR	C	366	63.386	102.900	-23.206	1.00 81.24	C
ATOM	6298	C	THR	C	366	63.158	105.463	-21.780	1.00100.07	C
ATOM	6299	O	THR	C	366	62.175	104.847	-21.369	1.00100.07	C
ATOM	6300	N	LEU	C	367	63.933	106.208	-20.999	1.00 87.14	C
ATOM	6301	CA	LEU	C	367	63.670	106.360	-19.578	1.00 87.14	C
ATOM	6302	CB	LEU	C	367	64.690	107.305	-18.942	1.00100.07	C
ATOM	6303	CG	LEU	C	367	66.110	106.775	-18.731	1.00100.07	C
ATOM	6304	CD1	LEU	C	367	67.010	107.904	-18.244	1.00100.07	C
ATOM	6305	CD2	LEU	C	367	66.086	105.624	-17.730	1.00100.07	C
ATOM	6306	C	LEU	C	367	62.273	106.911	-19.367	1.00 87.14	C
ATOM	6307	O	LEU	C	367	62.079	108.122	-19.331	1.00 87.14	C
ATOM	6308	N	THR	C	368	61.303	106.012	-19.245	1.00 88.45	C
ATOM	6309	CA	THR	C	368	59.918	106.400	-19.024	1.00 88.45	C
ATOM	6310	CB	THR	C	368	58.979	105.804	-20.094	1.00 85.27	C
ATOM	6311	OG1	THR	C	368	58.938	104.378	-19.960	1.00 85.27	C
ATOM	6312	CG2	THR	C	368	59.467	106.177	-21.496	1.00 85.27	C
ATOM	6313	C	THR	C	368	59.495	105.898	-17.654	1.00 88.45	C
ATOM	6314	O	THR	C	368	60.098	104.966	-17.118	1.00 88.45	C
ATOM	6315	N	PRO	C	369	58.464	106.514	-17.054	1.00100.07	C
ATOM	6316	CD	PRO	C	369	57.546	107.569	-17.523	1.00 36.65	C
ATOM	6317	CA	PRO	C	369	58.081	106.002	-15.735	1.00100.07	C
ATOM	6318	CB	PRO	C	369	56.970	106.960	-15.296	1.00 36.65	C
ATOM	6319	CG	PRO	C	369	56.378	107.440	-16.579	1.00 36.65	C
ATOM	6320	C	PRO	C	369	57.631	104.546	-15.865	1.00100.07	C
ATOM	6321	O	PRO	C	369	57.699	103.970	-16.951	1.00100.07	C
ATOM	6322	N	ALA	C	370	57.190	103.942	-14.771	1.00 74.49	C
ATOM	6323	CA	ALA	C	370	56.755	102.550	-14.810	1.00 74.49	C
ATOM	6324	CB	ALA	C	370	55.466	102.422	-15.599	1.00100.07	C
ATOM	6325	C	ALA	C	370	57.839	101.685	-15.438	1.00 74.49	C
ATOM	6326	O	ALA	C	370	57.616	100.517	-15.754	1.00 74.49	C
ATOM	6327	N	LYS	C	371	59.009	102.285	-15.630	1.00 40.41	C
ATOM	6328	CA	LYS	C	371	60.170	101.609	-16.193	1.00 40.41	C
ATOM	6329	CB	LYS	C	371	60.349	101.946	-17.681	1.00 65.26	C
ATOM	6330	CG	LYS	C	371	59.268	101.393	-18.604	1.00 65.26	C
ATOM	6331	CD	LYS	C	371	59.603	101.655	-20.071	1.00 65.26	C
ATOM	6332	CE	LYS	C	371	58.542	101.087	-21.005	1.00 65.26	C
ATOM	6333	NZ	LYS	C	371	57.221	101.740	-20.824	1.00 65.26	C
ATOM	6334	C	LYS	C	371	61.325	102.177	-15.396	1.00 40.41	C
ATOM	6335	O	LYS	C	371	62.455	101.674	-15.444	1.00 40.41	C
ATOM	6336	N	LEU	C	372	61.005	103.244	-14.667	1.00 98.56	C
ATOM	6337	CA	LEU	C	372	61.951	103.960	-13.825	1.00 98.56	C
ATOM	6338	CB	LEU	C	372	61.964	105.444	-14.198	1.00 84.70	C
ATOM	6339	CG	LEU	C	372	63.228	106.258	-13.899	1.00 84.70	C
ATOM	6340	CD1	LEU	C	372	62.983	107.709	-14.289	1.00 84.70	C
ATOM	6341	CD2	LEU	C	372	63.607	106.149	-12.433	1.00 84.70	C
ATOM	6342	C	LEU	C	372	61.471	103.819	-12.393	1.00 98.56	C
ATOM	6343	O	LEU	C	372	62.230	104.023	-11.449	1.00 98.56	C
ATOM	6344	N	VAL	C	373	60.199	103.462	-12.250	1.00 83.09	C
ATOM	6345	CA	VAL	C	373	59.562	103.302	-10.945	1.00 83.09	C
ATOM	6346	CB	VAL	C	373	58.215	104.049	-10.916	1.00 71.59	C

ATOM	6347	CG1	VAL	C	373	57.413	103.633	-9.710	1.00	71.59	C
ATOM	6348	CG2	VAL	C	373	58.462	105.547	-10.900	1.00	71.59	C
ATOM	6349	C	VAL	C	373	59.319	101.854	-10.547	1.00	83.09	C
ATOM	6350	O	VAL	C	373	58.975	101.019	-11.377	1.00	83.09	C
ATOM	6351	N	ASN	C	374	59.498	101.567	-9.263	1.00	53.47	C
ATOM	6352	CA	ASN	C	374	59.283	100.222	-8.746	1.00	53.47	C
ATOM	6353	CB	ASN	C	374	60.617	99.578	-8.370	1.00	100.07	C
ATOM	6354	CG	ASN	C	374	61.586	99.530	-9.539	1.00	100.07	C
ATOM	6355	OD1	ASN	C	374	61.214	99.159	-10.658	1.00	100.07	C
ATOM	6356	ND2	ASN	C	374	62.839	99.897	-9.284	1.00	100.07	C
ATOM	6357	C	ASN	C	374	58.340	100.233	-7.541	1.00	53.47	C
ATOM	6358	O	ASN	C	374	58.368	101.153	-6.716	1.00	53.47	C
ATOM	6359	N	SER	C	375	57.502	99.204	-7.444	1.00	68.54	C
ATOM	6360	CA	SER	C	375	56.534	99.115	-6.362	1.00	68.54	C
ATOM	6361	CB	SER	C	375	55.250	98.475	-6.878	1.00	100.07	C
ATOM	6362	OG	SER	C	375	54.754	99.187	-7.999	1.00	100.07	C
ATOM	6363	C	SER	C	375	57.051	98.340	-5.169	1.00	68.54	C
ATOM	6364	O	SER	C	375	56.412	97.396	-4.712	1.00	68.54	C
ATOM	6365	N	ARG	C	376	58.216	98.739	-4.672	1.00	40.13	C
ATOM	6366	CA	ARG	C	376	58.826	98.088	-3.518	1.00	40.13	C
ATOM	6367	CB	ARG	C	376	60.207	97.525	-3.868	1.00	100.07	C
ATOM	6368	CG	ARG	C	376	60.149	96.199	-4.626	1.00	100.07	C
ATOM	6369	CD	ARG	C	376	61.510	95.505	-4.704	1.00	100.07	C
ATOM	6370	NE	ARG	C	376	61.388	94.123	-5.172	1.00	100.07	C
ATOM	6371	CZ	ARG	C	376	62.390	93.248	-5.208	1.00	100.07	C
ATOM	6372	NH1	ARG	C	376	63.604	93.607	-4.801	1.00	100.07	C
ATOM	6373	NH2	ARG	C	376	62.173	92.010	-5.644	1.00	100.07	C
ATOM	6374	C	ARG	C	376	58.936	99.080	-2.381	1.00	40.13	C
ATOM	6375	O	ARG	C	376	58.538	98.795	-1.257	1.00	40.13	C
ATOM	6376	N	PRO	C	377	59.475	100.267	-2.658	1.00	70.63	C
ATOM	6377	CD	PRO	C	377	59.910	100.758	-3.972	1.00	100.07	C
ATOM	6378	CA	PRO	C	377	59.626	101.313	-1.645	1.00	70.63	C
ATOM	6379	CB	PRO	C	377	59.967	102.554	-2.478	1.00	100.07	C
ATOM	6380	CG	PRO	C	377	59.513	102.193	-3.888	1.00	100.07	C
ATOM	6381	C	PRO	C	377	58.394	101.535	-0.760	1.00	70.63	C
ATOM	6382	O	PRO	C	377	58.501	101.506	0.463	1.00	70.63	C
ATOM	6383	N	LEU	C	378	57.238	101.760	-1.386	1.00	70.91	C
ATOM	6384	CA	LEU	C	378	55.985	101.992	-0.665	1.00	70.91	C
ATOM	6385	CB	LEU	C	378	54.940	102.613	-1.586	1.00	81.51	C
ATOM	6386	CG	LEU	C	378	55.158	104.095	-1.863	1.00	81.51	C
ATOM	6387	CD1	LEU	C	378	56.464	104.313	-2.625	1.00	81.51	C
ATOM	6388	CD2	LEU	C	378	53.980	104.609	-2.648	1.00	81.51	C
ATOM	6389	C	LEU	C	378	55.421	100.727	-0.040	1.00	70.91	C
ATOM	6390	O	LEU	C	378	54.634	100.785	0.909	1.00	70.91	C
ATOM	6391	N	GLU	C	379	55.792	99.581	-0.594	1.00	69.76	C
ATOM	6392	CA	GLU	C	379	55.356	98.330	-0.014	1.00	69.76	C
ATOM	6393	CB	GLU	C	379	55.325	97.216	-1.054	1.00	100.07	C
ATOM	6394	CG	GLU	C	379	54.327	96.139	-0.699	1.00	100.07	C
ATOM	6395	CD	GLU	C	379	53.041	96.733	-0.149	1.00	100.07	C
ATOM	6396	OE1	GLU	C	379	52.484	97.637	-0.810	1.00	100.07	C
ATOM	6397	OE2	GLU	C	379	52.590	96.306	0.939	1.00	100.07	C
ATOM	6398	C	GLU	C	379	56.470	98.107	0.993	1.00	69.76	C
ATOM	6399	O	GLU	C	379	57.489	98.796	0.934	1.00	69.76	C
ATOM	6400	N	ALA	C	380	56.298	97.169	1.915	1.00	99.83	C
ATOM	6401	CA	ALA	C	380	57.319	96.939	2.931	1.00	99.83	C
ATOM	6402	CB	ALA	C	380	58.694	96.751	2.287	1.00	68.20	C
ATOM	6403	C	ALA	C	380	57.324	98.175	3.818	1.00	99.83	C
ATOM	6404	O	ALA	C	380	56.989	98.105	4.996	1.00	99.83	C
ATOM	6405	N	ALA	C	381	57.695	99.313	3.244	1.00	58.39	C
ATOM	6406	CA	ALA	C	381	57.717	100.555	3.993	1.00	58.39	C
ATOM	6407	CB	ALA	C	381	57.894	101.725	3.065	1.00	100.07	C
ATOM	6408	C	ALA	C	381	56.394	100.655	4.712	1.00	58.39	C
ATOM	6409	O	ALA	C	381	56.291	101.318	5.736	1.00	58.39	C
ATOM	6410	N	LEU	C	382	55.385	99.993	4.150	1.00	82.05	C
ATOM	6411	CA	LEU	C	382	54.046	99.939	4.731	1.00	82.05	C
ATOM	6412	CB	LEU	C	382	52.978	100.171	3.672	1.00	5.55	C
ATOM	6413	CG	LEU	C	382	52.716	101.595	3.216	1.00	5.55	C
ATOM	6414	CD1	LEU	C	382	51.793	101.569	2.028	1.00	5.55	C
ATOM	6415	CD2	LEU	C	382	52.099	102.391	4.345	1.00	5.55	C
ATOM	6416	C	LEU	C	382	53.854	98.547	5.306	1.00	82.05	C
ATOM	6417	O	LEU	C	382	53.592	98.381	6.500	1.00	82.05	C
ATOM	6418	N	ARG	C	383	53.981	97.547	4.436	1.00	94.25	C
ATOM	6419	CA	ARG	C	383	53.841	96.156	4.837	1.00	94.25	C
ATOM	6420	CB	ARG	C	383	54.454	95.227	3.778	1.00	100.07	C
ATOM	6421	CG	ARG	C	383	54.527	93.756	4.184	1.00	100.07	C
ATOM	6422	CD	ARG	C	383	55.108	92.872	3.072	1.00	100.07	C
ATOM	6423	NE	ARG	C	383	54.186	92.700	1.945	1.00	100.07	C
ATOM	6424	CZ	ARG	C	383	54.338	91.799	0.970	1.00	100.07	C
ATOM	6425	NH1	ARG	C	383	55.381	90.975	0.975	1.00	100.07	C
ATOM	6426	NH2	ARG	C	383	53.439	91.709	-0.009	1.00	100.07	C
ATOM	6427	C	ARG	C	383	54.557	95.981	6.163	1.00	94.25	C
ATOM	6428	O	ARG	C	383	54.186	95.130	6.969	1.00	94.25	C
ATOM	6429	N	GLU	C	384	55.583	96.796	6.391	1.00	56.29	C
ATOM	6430	CA	GLU	C	384	56.308	96.713	7.634	1.00	56.29	C

ATOM	6431	CB	GLU	C	384	57.712	97.282	7.523	1.00	84.63	C
ATOM	6432	CG	GLU	C	384	58.655	96.650	8.525	1.00	84.63	C
ATOM	6433	CD	GLU	C	384	59.980	97.370	8.618	1.00	84.63	C
ATOM	6434	OE1	GLU	C	384	60.038	98.424	9.291	1.00	84.63	C
ATOM	6435	OE2	GLU	C	384	60.962	96.887	8.010	1.00	84.63	C
ATOM	6436	C	GLU	C	384	55.535	97.481	8.675	1.00	56.29	C
ATOM	6437	O	GLU	C	384	55.254	96.945	9.742	1.00	56.29	C
ATOM	6438	N	PHE	C	385	55.163	98.726	8.402	1.00	53.87	C
ATOM	6439	CA	PHE	C	385	54.421	99.423	9.439	1.00	53.87	C
ATOM	6440	CB	PHE	C	385	54.222	100.908	9.165	1.00	31.97	C
ATOM	6441	CG	PHE	C	385	53.353	101.582	10.214	1.00	31.97	C
ATOM	6442	CD1	PHE	C	385	53.785	101.677	11.540	1.00	31.97	C
ATOM	6443	CD2	PHE	C	385	52.078	102.045	9.900	1.00	31.97	C
ATOM	6444	CE1	PHE	C	385	52.972	102.214	12.527	1.00	31.97	C
ATOM	6445	CE2	PHE	C	385	51.263	102.581	10.885	1.00	31.97	C
ATOM	6446	CZ	PHE	C	385	51.714	102.663	12.200	1.00	31.97	C
ATOM	6447	C	PHE	C	385	53.052	98.832	9.728	1.00	53.87	C
ATOM	6448	O	PHE	C	385	52.946	97.856	10.462	1.00	53.87	C
ATOM	6449	N	PHE	C	386	52.014	99.425	9.140	1.00	46.11	C
ATOM	6450	CA	PHE	C	386	50.639	99.012	9.381	1.00	46.11	C
ATOM	6451	CB	PHE	C	386	49.834	98.926	8.081	1.00	42.42	C
ATOM	6452	CG	PHE	C	386	48.394	99.267	8.272	1.00	42.42	C
ATOM	6453	CD1	PHE	C	386	47.875	100.451	7.768	1.00	42.42	C
ATOM	6454	CD2	PHE	C	386	47.581	98.465	9.076	1.00	42.42	C
ATOM	6455	CE1	PHE	C	386	46.555	100.840	8.071	1.00	42.42	C
ATOM	6456	CE2	PHE	C	386	46.261	98.844	9.386	1.00	42.42	C
ATOM	6457	CZ	PHE	C	386	45.745	100.033	8.888	1.00	42.42	C
ATOM	6458	C	PHE	C	386	50.535	97.694	10.134	1.00	46.11	C
ATOM	6459	O	PHE	C	386	50.323	97.674	11.353	1.00	46.11	C
ATOM	6460	N	SER	C	387	50.696	96.589	9.423	1.00	23.33	C
ATOM	6461	CA	SER	C	387	50.619	95.294	10.078	1.00	23.33	C
ATOM	6462	CB	SER	C	387	50.407	94.188	9.038	1.00	100.07	C
ATOM	6463	OG	SER	C	387	49.034	93.837	8.945	1.00	100.07	C
ATOM	6464	C	SER	C	387	51.886	95.050	10.875	1.00	23.33	C
ATOM	6465	O	SER	C	387	52.297	95.891	11.652	1.00	23.33	C
ATOM	6466	N	ARG	C	388	52.495	93.897	10.676	1.00	84.80	C
ATOM	6467	CA	ARG	C	388	53.716	93.533	11.361	1.00	84.80	C
ATOM	6468	CB	ARG	C	388	54.832	93.413	10.327	1.00	100.07	C
ATOM	6469	CG	ARG	C	388	54.634	92.229	9.379	1.00	100.07	C
ATOM	6470	CD	ARG	C	388	55.745	92.147	8.349	1.00	100.07	C
ATOM	6471	NE	ARG	C	388	56.133	90.770	8.059	1.00	100.07	C
ATOM	6472	CZ	ARG	C	388	57.221	90.434	7.369	1.00	100.07	C
ATOM	6473	NH1	ARG	C	388	58.026	91.378	6.897	1.00	100.07	C
ATOM	6474	NH2	ARG	C	388	57.517	89.157	7.162	1.00	100.07	C
ATOM	6475	C	ARG	C	388	54.163	94.399	12.553	1.00	84.80	C
ATOM	6476	O	ARG	C	388	53.417	94.569	13.516	1.00	84.80	C
ATOM	6477	N	SER	C	389	55.372	94.948	12.487	1.00	15.17	C
ATOM	6478	CA	SER	C	389	55.938	95.743	13.591	1.00	15.17	C
ATOM	6479	CB	SER	C	389	57.466	95.729	13.482	1.00	100.07	C
ATOM	6480	OG	SER	C	389	57.900	96.390	12.301	1.00	100.07	C
ATOM	6481	C	SER	C	389	55.498	97.197	13.797	1.00	15.17	C
ATOM	6482	O	SER	C	389	55.539	98.003	12.868	1.00	15.17	C
ATOM	6483	N	ALA	C	390	55.130	97.520	15.034	1.00	74.60	C
ATOM	6484	CA	ALA	C	390	54.695	98.860	15.437	1.00	74.60	C
ATOM	6485	CB	ALA	C	390	54.061	99.607	14.271	1.00	54.82	C
ATOM	6486	C	ALA	C	390	53.680	98.725	16.561	1.00	74.60	C
ATOM	6487	O	ALA	C	390	52.511	98.422	16.299	1.00	74.60	C
ATOM	6488	N	LEU	C	391	54.128	98.943	17.800	1.00	99.21	C
ATOM	6489	CA	LEU	C	391	53.259	98.846	18.973	1.00	99.21	C
ATOM	6490	CB	LEU	C	391	53.669	99.858	20.047	1.00	100.07	C
ATOM	6491	CG	LEU	C	391	54.523	99.374	21.223	1.00	100.07	C
ATOM	6492	CD1	LEU	C	391	54.940	100.571	22.082	1.00	100.07	C
ATOM	6493	CD2	LEU	C	391	53.733	98.361	22.048	1.00	100.07	C
ATOM	6494	C	LEU	C	391	51.833	99.122	18.557	1.00	99.21	C
ATOM	6495	O	LEU	C	391	50.907	98.427	18.965	1.00	99.21	C
ATOM	6496	N	SER	C	392	51.668	100.138	17.723	1.00	41.66	C
ATOM	6497	CA	SER	C	392	50.358	100.503	17.242	1.00	41.66	C
ATOM	6498	CB	SER	C	392	50.422	101.884	16.574	1.00	44.66	C
ATOM	6499	OG	SER	C	392	50.865	102.887	17.483	1.00	44.66	C
ATOM	6500	C	SER	C	392	49.798	99.439	16.283	1.00	41.66	C
ATOM	6501	O	SER	C	392	49.167	99.757	15.276	1.00	41.66	C
ATOM	6502	N	GLN	C	393	50.035	98.170	16.595	1.00	45.63	C
ATOM	6503	CA	GLN	C	393	49.507	97.080	15.782	1.00	45.63	C
ATOM	6504	CB	GLN	C	393	50.576	96.515	14.841	1.00	68.19	C
ATOM	6505	CG	GLN	C	393	50.051	95.603	13.683	1.00	68.19	C
ATOM	6506	CD	GLN	C	393	49.662	94.150	14.073	1.00	68.19	C
ATOM	6507	OE1	GLN	C	393	49.587	93.277	13.212	1.00	68.19	C
ATOM	6508	NE2	GLN	C	393	49.406	93.905	15.349	1.00	68.19	C
ATOM	6509	C	GLN	C	393	49.024	95.970	16.707	1.00	45.63	C
ATOM	6510	O	GLN	C	393	49.827	95.367	17.415	1.00	45.63	C
ATOM	6511	N	PHE	C	394	47.720	95.704	16.700	1.00	88.56	C
ATOM	6512	CA	PHE	C	394	47.133	94.642	17.513	1.00	88.56	C
ATOM	6513	CB	PHE	C	394	47.728	94.634	18.941	1.00	62.03	C
ATOM	6514	CG	PHE	C	394	47.836	96.016	19.621	1.00	62.03	C

ATOM	6515	CD1	PHE	C	394	46.727	96.841	19.784	1.00	62.03	C
ATOM	6516	CD2	PHE	C	394	49.036	96.426	20.217	1.00	62.03	C
ATOM	6517	CE1	PHE	C	394	46.804	98.040	20.536	1.00	62.03	C
ATOM	6518	CE2	PHE	C	394	49.109	97.625	20.967	1.00	62.03	C
ATOM	6519	CZ	PHE	C	394	47.989	98.422	21.123	1.00	62.03	C
ATOM	6520	C	PHE	C	394	45.608	94.717	17.565	1.00	88.56	C
ATOM	6521	O	PHE	C	394	45.041	95.805	17.458	1.00	88.56	C
ATOM	6522	N	LYS	C	395	44.947	93.562	17.689	1.00	92.90	C
ATOM	6523	CA	LYS	C	395	43.477	93.501	17.773	1.00	92.90	C
ATOM	6524	CB	LYS	C	395	42.921	92.323	16.983	1.00	92.45	C
ATOM	6525	CG	LYS	C	395	43.378	90.975	17.521	1.00	92.45	C
ATOM	6526	CD	LYS	C	395	42.263	89.937	17.495	1.00	92.45	C
ATOM	6527	CE	LYS	C	395	41.844	89.561	16.081	1.00	92.45	C
ATOM	6528	NZ	LYS	C	395	40.691	88.615	16.087	1.00	92.45	C
ATOM	6529	C	LYS	C	395	43.150	93.275	19.229	1.00	92.90	C
ATOM	6530	O	LYS	C	395	44.019	93.448	20.079	1.00	92.90	C
ATOM	6531	N	ASP	C	396	41.919	92.880	19.541	1.00	39.25	C
ATOM	6532	CA	ASP	C	396	41.618	92.631	20.953	1.00	39.25	C
ATOM	6533	CB	ASP	C	396	41.626	93.950	21.736	1.00	83.72	C
ATOM	6534	CG	ASP	C	396	42.032	93.762	23.190	1.00	83.72	C
ATOM	6535	OD1	ASP	C	396	41.329	93.032	23.913	1.00	83.72	C
ATOM	6536	OD2	ASP	C	396	43.054	94.344	23.610	1.00	83.72	C
ATOM	6537	C	ASP	C	396	40.357	91.843	21.299	1.00	39.25	C
ATOM	6538	O	ASP	C	396	39.245	92.384	21.347	1.00	39.25	C
ATOM	6539	N	GLU	C	397	40.576	90.551	21.537	1.00	48.65	C
ATOM	6540	CA	GLU	C	397	39.564	89.576	21.942	1.00	48.65	C
ATOM	6541	CB	GLU	C	397	39.712	89.342	23.455	1.00	45.27	C
ATOM	6542	CG	GLU	C	397	38.793	88.295	24.073	1.00	45.27	C
ATOM	6543	CD	GLU	C	397	37.623	88.895	24.826	1.00	45.27	C
ATOM	6544	OE1	GLU	C	397	36.931	89.783	24.286	1.00	45.27	C
ATOM	6545	OE2	GLU	C	397	37.393	88.452	25.965	1.00	45.27	C
ATOM	6546	C	GLU	C	397	38.080	89.793	21.600	1.00	48.65	C
ATOM	6547	O	GLU	C	397	37.703	90.722	20.888	1.00	48.65	C
ATOM	6548	N	THR	C	398	37.270	88.884	22.140	1.00	100.07	C
ATOM	6549	CA	THR	C	398	35.820	88.792	21.993	1.00	100.07	C
ATOM	6550	CB	THR	C	398	35.313	87.505	22.676	1.00	56.66	C
ATOM	6551	OG1	THR	C	398	35.825	87.433	24.011	1.00	56.66	C
ATOM	6552	CG2	THR	C	398	35.764	86.296	21.912	1.00	56.66	C
ATOM	6553	C	THR	C	398	34.937	89.940	22.478	1.00	100.07	C
ATOM	6554	O	THR	C	398	34.511	90.772	21.673	1.00	100.07	C
ATOM	6555	N	ASN	C	399	34.639	89.958	23.781	1.00	47.47	C
ATOM	6556	CA	ASN	C	399	33.766	90.977	24.375	1.00	47.47	C
ATOM	6557	CB	ASN	C	399	34.267	91.388	25.747	1.00	55.14	C
ATOM	6558	CG	ASN	C	399	33.471	92.536	26.325	1.00	55.14	C
ATOM	6559	OD1	ASN	C	399	33.833	93.106	27.355	1.00	55.14	C
ATOM	6560	ND2	ASN	C	399	32.373	92.880	25.667	1.00	55.14	C
ATOM	6561	C	ASN	C	399	33.651	92.229	23.521	1.00	47.47	C
ATOM	6562	O	ASN	C	399	34.444	93.151	23.673	1.00	47.47	C
ATOM	6563	N	PRO	C	400	32.634	92.292	22.644	1.00	35.05	C
ATOM	6564	CD	PRO	C	400	31.385	91.528	22.747	1.00	36.44	C
ATOM	6565	CA	PRO	C	400	32.436	93.445	21.769	1.00	35.05	C
ATOM	6566	CB	PRO	C	400	30.950	93.363	21.414	1.00	36.44	C
ATOM	6567	CG	PRO	C	400	30.365	92.600	22.543	1.00	36.44	C
ATOM	6568	C	PRO	C	400	32.834	94.790	22.380	1.00	35.05	C
ATOM	6569	O	PRO	C	400	33.244	95.707	21.657	1.00	35.05	C
ATOM	6570	N	LEU	C	401	32.722	94.934	23.698	1.00	23.41	C
ATOM	6571	CA	LEU	C	401	33.120	96.205	24.278	1.00	23.41	C
ATOM	6572	CB	LEU	C	401	32.995	96.209	25.793	1.00	13.07	C
ATOM	6573	CG	LEU	C	401	33.447	97.565	26.326	1.00	13.07	C
ATOM	6574	CD1	LEU	C	401	32.501	98.595	25.793	1.00	13.07	C
ATOM	6575	CD2	LEU	C	401	33.451	97.609	27.834	1.00	13.07	C
ATOM	6576	C	LEU	C	401	34.574	96.312	23.911	1.00	23.41	C
ATOM	6577	O	LEU	C	401	35.009	97.279	23.292	1.00	23.41	C
ATOM	6578	N	SER	C	402	35.307	95.271	24.285	1.00	37.62	C
ATOM	6579	CA	SER	C	402	36.735	95.159	24.027	1.00	37.62	C
ATOM	6580	CB	SER	C	402	37.159	93.699	24.206	1.00	58.42	C
ATOM	6581	OG	SER	C	402	36.598	93.170	25.395	1.00	58.42	C
ATOM	6582	C	SER	C	402	37.094	95.648	22.622	1.00	37.62	C
ATOM	6583	O	SER	C	402	37.676	96.720	22.443	1.00	37.62	C
ATOM	6584	N	SER	C	403	36.746	94.856	21.623	1.00	59.01	C
ATOM	6585	CA	SER	C	403	37.027	95.232	20.256	1.00	59.01	C
ATOM	6586	CB	SER	C	403	36.280	94.302	19.304	1.00	100.07	C
ATOM	6587	OG	SER	C	403	34.880	94.375	19.519	1.00	100.07	C
ATOM	6588	C	SER	C	403	36.616	96.678	19.975	1.00	59.01	C
ATOM	6589	O	SER	C	403	36.816	97.171	18.868	1.00	59.01	C
ATOM	6590	N	LEU	C	404	36.031	97.353	20.963	1.00	29.86	C
ATOM	6591	CA	LEU	C	404	35.601	98.741	20.787	1.00	29.86	C
ATOM	6592	CB	LEU	C	404	34.121	98.884	21.167	1.00	33.94	C
ATOM	6593	CG	LEU	C	404	33.424	100.196	20.787	1.00	33.94	C
ATOM	6594	CD1	LEU	C	404	33.246	100.275	19.289	1.00	33.94	C
ATOM	6595	CD2	LEU	C	404	32.070	100.258	21.448	1.00	33.94	C
ATOM	6596	C	LEU	C	404	36.459	99.719	21.610	1.00	29.86	C
ATOM	6597	O	LEU	C	404	37.066	100.646	21.052	1.00	29.86	C
ATOM	6598	N	ARG	C	405	36.508	99.498	22.928	1.00	41.17	C

ATOM	6599	CA	ARG	C	405	37.286	100.332	23.852	1.00	41.17	C
ATOM	6600	CB	ARG	C	405	37.154	99.815	25.300	1.00	100.07	C
ATOM	6601	CG	ARG	C	405	38.471	99.334	25.985	1.00	100.07	C
ATOM	6602	CD	ARG	C	405	39.043	98.062	25.331	1.00	100.07	C
ATOM	6603	NE	ARG	C	405	40.331	97.622	25.879	1.00	100.07	C
ATOM	6604	CZ	ARG	C	405	41.087	96.663	25.335	1.00	100.07	C
ATOM	6605	NH1	ARG	C	405	40.690	96.045	24.232	1.00	100.07	C
ATOM	6606	NH2	ARG	C	405	42.242	96.317	25.890	1.00	100.07	C
ATOM	6607	C	ARG	C	405	38.740	100.293	23.451	1.00	41.17	C
ATOM	6608	O	ARG	C	405	39.570	101.003	24.008	1.00	41.17	C
ATOM	6609	N	HIS	C	406	39.042	99.447	22.479	1.00	24.77	C
ATOM	6610	CA	HIS	C	406	40.404	99.278	22.030	1.00	24.77	C
ATOM	6611	CB	HIS	C	406	40.645	97.818	21.701	1.00	25.51	C
ATOM	6612	CG	HIS	C	406	42.032	97.532	21.235	1.00	25.51	C
ATOM	6613	CD2	HIS	C	406	43.080	96.957	21.867	1.00	25.51	C
ATOM	6614	ND1	HIS	C	406	42.466	97.843	19.966	1.00	25.51	C
ATOM	6615	CE1	HIS	C	406	43.721	97.468	19.836	1.00	25.51	C
ATOM	6616	NE2	HIS	C	406	44.118	96.927	20.973	1.00	25.51	C
ATOM	6617	C	HIS	C	406	40.785	100.138	20.850	1.00	24.77	C
ATOM	6618	O	HIS	C	406	41.967	100.355	20.605	1.00	24.77	C
ATOM	6619	N	ALA	C	407	39.803	100.600	20.092	1.00	38.45	C
ATOM	6620	CA	ALA	C	407	40.115	101.471	18.970	1.00	38.45	C
ATOM	6621	CB	ALA	C	407	39.042	101.398	17.932	1.00	26.31	C
ATOM	6622	C	ALA	C	407	40.098	102.826	19.624	1.00	38.45	C
ATOM	6623	O	ALA	C	407	40.726	103.776	19.156	1.00	38.45	C
ATOM	6624	N	ARG	C	408	39.377	102.864	20.742	1.00	53.76	C
ATOM	6625	CA	ARG	C	408	39.171	104.055	21.549	1.00	53.76	C
ATOM	6626	CB	ARG	C	408	37.830	103.924	22.284	1.00	38.44	C
ATOM	6627	CG	ARG	C	408	37.253	105.223	22.770	1.00	38.44	C
ATOM	6628	CD	ARG	C	408	35.952	105.034	23.549	1.00	38.44	C
ATOM	6629	NE	ARG	C	408	35.174	106.269	23.554	1.00	38.44	C
ATOM	6630	CZ	ARG	C	408	34.881	106.954	22.447	1.00	38.44	C
ATOM	6631	NH1	ARG	C	408	35.300	106.516	21.260	1.00	38.44	C
ATOM	6632	NH2	ARG	C	408	34.181	108.081	22.516	1.00	38.44	C
ATOM	6633	C	ARG	C	408	40.308	104.335	22.543	1.00	53.76	C
ATOM	6634	O	ARG	C	408	40.254	105.321	23.276	1.00	53.76	C
ATOM	6635	N	ARG	C	409	41.324	103.471	22.588	1.00	53.14	C
ATOM	6636	CA	ARG	C	409	42.462	103.699	23.486	1.00	53.14	C
ATOM	6637	CB	ARG	C	409	43.333	102.453	23.647	1.00	56.81	C
ATOM	6638	CG	ARG	C	409	43.025	101.587	24.855	1.00	56.81	C
ATOM	6639	CD	ARG	C	409	44.033	100.433	24.942	1.00	56.81	C
ATOM	6640	NE	ARG	C	409	43.760	99.503	26.040	1.00	56.81	C
ATOM	6641	CZ	ARG	C	409	44.543	98.477	26.377	1.00	56.81	C
ATOM	6642	NH1	ARG	C	409	45.671	98.233	25.710	1.00	56.81	C
ATOM	6643	NH2	ARG	C	409	44.179	97.679	27.373	1.00	56.81	C
ATOM	6644	C	ARG	C	409	43.294	104.782	22.838	1.00	53.14	C
ATOM	6645	O	ARG	C	409	43.048	105.153	21.689	1.00	53.14	C
ATOM	6646	N	ILE	C	410	44.298	105.269	23.553	1.00	27.33	C
ATOM	6647	CA	ILE	C	410	45.130	106.344	23.024	1.00	27.33	C
ATOM	6648	CB	ILE	C	410	44.672	107.713	23.598	1.00	41.58	C
ATOM	6649	CG2	ILE	C	410	45.571	108.843	23.096	1.00	41.58	C
ATOM	6650	CG1	ILE	C	410	43.220	107.970	23.202	1.00	41.58	C
ATOM	6651	CD	ILE	C	410	42.743	109.335	23.544	1.00	41.58	C
ATOM	6652	C	ILE	C	410	46.597	106.159	23.350	1.00	27.33	C
ATOM	6653	O	ILE	C	410	47.265	105.263	22.832	1.00	27.33	C
ATOM	6654	N	SER	C	411	47.079	107.058	24.199	1.00	36.52	C
ATOM	6655	CA	SER	C	411	48.443	107.066	24.691	1.00	36.52	C
ATOM	6656	CB	SER	C	411	48.400	106.733	26.185	1.00	62.16	C
ATOM	6657	OG	SER	C	411	47.111	106.239	26.551	1.00	62.16	C
ATOM	6658	C	SER	C	411	49.383	106.110	23.959	1.00	36.52	C
ATOM	6659	O	SER	C	411	49.423	106.074	22.732	1.00	36.52	C
ATOM	6660	N	ALA	C	412	50.137	105.348	24.743	1.00	64.92	C
ATOM	6661	CA	ALA	C	412	51.079	104.367	24.227	1.00	64.92	C
ATOM	6662	CB	ALA	C	412	50.440	103.585	23.073	1.00	18.77	C
ATOM	6663	C	ALA	C	412	52.397	104.989	23.780	1.00	64.92	C
ATOM	6664	O	ALA	C	412	52.438	106.139	23.356	1.00	64.92	C
ATOM	6665	N	ALA	C	413	53.472	104.215	23.888	1.00	57.15	C
ATOM	6666	CA	ALA	C	413	54.794	104.668	23.478	1.00	57.15	C
ATOM	6667	CB	ALA	C	413	55.835	103.618	23.849	1.00	81.91	C
ATOM	6668	C	ALA	C	413	54.789	104.895	21.966	1.00	57.15	C
ATOM	6669	O	ALA	C	413	54.967	103.955	21.195	1.00	57.15	C
ATOM	6670	N	ALA	C	414	54.597	106.145	21.552	1.00	100.07	C
ATOM	6671	CA	ALA	C	414	54.538	106.498	20.131	1.00	100.07	C
ATOM	6672	CB	ALA	C	414	54.007	107.936	19.969	1.00	67.08	C
ATOM	6673	C	ALA	C	414	55.854	106.348	19.372	1.00	100.07	C
ATOM	6674	O	ALA	C	414	56.673	105.470	19.669	1.00	100.07	C
ATOM	6675	N	ALA	C	415	56.035	107.211	18.376	1.00	100.07	C
ATOM	6676	CA	ALA	C	415	57.236	107.199	17.560	1.00	100.07	C
ATOM	6677	CB	ALA	C	415	56.975	107.914	16.240	1.00	100.07	C
ATOM	6678	C	ALA	C	415	58.383	107.868	18.312	1.00	100.07	C
ATOM	6679	O	ALA	C	415	58.186	108.439	19.388	1.00	100.07	C
ATOM	6680	N	ALA	C	416	59.579	107.791	17.731	1.00	100.07	C
ATOM	6681	CA	ALA	C	416	60.785	108.364	18.326	1.00	100.07	C
ATOM	6682	CB	ALA	C	416	61.988	108.113	17.413	1.00	91.00	C

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ATOM	6683	C	ALA	C	416	60.677	109.855	18.660	1.00100.07	C
ATOM	6684	O	ALA	C	416	59.752	110.269	19.370	1.00100.07	C
ATOM	6685	N	ALA	C	417	61.621	110.650	18.147	1.00100.07	C
ATOM	6686	CA	ALA	C	417	61.670	112.095	18.405	1.00100.07	C
ATOM	6687	CB	ALA	C	417	60.355	112.768	17.983	1.00 51.89	C
ATOM	6688	C	ALA	C	417	61.930	112.304	19.906	1.00100.07	C
ATOM	6689	O	ALA	C	417	63.084	112.323	20.345	1.00100.07	C
ATOM	6690	N	ALA	C	418	60.863	112.441	20.693	1.00100.07	C
ATOM	6691	CA	ALA	C	418	60.987	112.618	22.144	1.00100.07	C
ATOM	6692	CB	ALA	C	418	61.465	114.040	22.477	1.00 65.97	C
ATOM	6693	C	ALA	C	418	59.649	112.337	22.833	1.00100.07	C
ATOM	6694	O	ALA	C	418	59.244	113.068	23.742	1.00100.07	C
ATOM	6695	N	ALA	C	419	58.981	111.262	22.400	1.00100.07	C
ATOM	6696	CA	ALA	C	419	57.677	110.872	22.937	1.00100.07	C
ATOM	6697	CB	ALA	C	419	56.589	111.092	21.861	1.00 90.38	C
ATOM	6698	C	ALA	C	419	57.578	109.445	23.485	1.00100.07	C
ATOM	6699	O	ALA	C	419	57.508	108.477	22.722	1.00100.07	C
ATOM	6700	N	ALA	C	420	57.572	109.344	24.814	1.00 96.61	C
ATOM	6701	CA	ALA	C	420	57.423	108.083	25.534	1.00 96.61	C
ATOM	6702	CB	ALA	C	420	56.034	107.527	25.260	1.00100.07	C
ATOM	6703	C	ALA	C	420	58.434	106.959	25.397	1.00 96.61	C
ATOM	6704	O	ALA	C	420	59.294	106.954	24.518	1.00 96.61	C
ATOM	6705	N	GLU	C	421	58.266	105.990	26.291	1.00 64.31	C
ATOM	6706	CA	GLU	C	421	59.073	104.785	26.406	1.00 64.31	C
ATOM	6707	CB	GLU	C	421	60.558	105.115	26.425	1.00100.07	C
ATOM	6708	CG	GLU	C	421	61.351	104.126	27.269	1.00100.07	C
ATOM	6709	CD	GLU	C	421	62.822	104.450	27.322	1.00100.07	C
ATOM	6710	OE1	GLU	C	421	63.162	105.631	27.559	1.00100.07	C
ATOM	6711	OE2	GLU	C	421	63.636	103.519	27.131	1.00100.07	C
ATOM	6712	C	GLU	C	421	58.693	104.147	27.744	1.00 64.31	C
ATOM	6713	O	GLU	C	421	58.271	104.844	28.657	1.00 64.31	C
ATOM	6714	N	ARG	C	422	58.854	102.837	27.873	1.00 72.83	C
ATOM	6715	CA	ARG	C	422	58.494	102.138	29.104	1.00 72.83	C
ATOM	6716	CB	ARG	C	422	58.571	100.615	28.891	1.00100.07	C
ATOM	6717	CG	ARG	C	422	57.941	100.131	27.571	1.00100.07	C
ATOM	6718	CD	ARG	C	422	57.685	98.612	27.524	1.00100.07	C
ATOM	6719	NE	ARG	C	422	57.274	98.179	26.183	1.00100.07	C
ATOM	6720	CZ	ARG	C	422	56.744	96.992	25.882	1.00100.07	C
ATOM	6721	NH1	ARG	C	422	56.536	96.076	26.824	1.00100.07	C
ATOM	6722	NH2	ARG	C	422	56.428	96.714	24.623	1.00100.07	C
ATOM	6723	C	ARG	C	422	59.370	102.531	30.297	1.00 72.83	C
ATOM	6724	O	ARG	C	422	59.663	101.696	31.155	1.00 72.83	C
ATOM	6725	N	ALA	C	423	59.760	103.809	30.334	1.00 99.57	C
ATOM	6726	CA	ALA	C	423	60.592	104.402	31.396	1.00 99.57	C
ATOM	6727	CB	ALA	C	423	61.556	103.361	31.982	1.00 72.35	C
ATOM	6728	C	ALA	C	423	61.388	105.585	30.839	1.00 99.57	C
ATOM	6729	O	ALA	C	423	62.496	105.865	31.295	1.00 99.57	C
ATOM	6730	N	GLY	C	424	60.814	106.285	29.864	1.00100.07	C
ATOM	6731	CA	GLY	C	424	61.507	107.400	29.233	1.00100.07	C
ATOM	6732	C	GLY	C	424	62.001	108.507	30.145	1.00100.07	C
ATOM	6733	O	GLY	C	424	61.836	108.428	31.367	1.00100.07	C
ATOM	6734	N	ALA	C	425	62.611	109.538	29.550	1.00100.07	C
ATOM	6735	CA	ALA	C	425	63.127	110.692	30.289	1.00100.07	C
ATOM	6736	CB	ALA	C	425	64.064	111.531	29.398	1.00 58.72	C
ATOM	6737	C	ALA	C	425	61.935	111.533	30.775	1.00100.07	C
ATOM	6738	O	ALA	C	425	62.025	112.752	30.940	1.00100.07	C
ATOM	6739	N	ALA	C	426	60.812	110.848	30.987	1.00100.07	C
ATOM	6740	CA	ALA	C	426	59.570	111.435	31.470	1.00100.07	C
ATOM	6741	CB	ALA	C	426	58.880	112.230	30.363	1.00 94.56	C
ATOM	6742	C	ALA	C	426	58.675	110.277	31.932	1.00100.07	C
ATOM	6743	O	ALA	C	426	58.220	109.466	31.122	1.00100.07	C
ATOM	6744	N	VAL	C	427	58.469	110.200	33.244	1.00100.07	C
ATOM	6745	CA	VAL	C	427	57.641	109.182	33.897	1.00100.07	C
ATOM	6746	CB	VAL	C	427	58.395	107.831	34.048	1.00100.07	C
ATOM	6747	CG1	VAL	C	427	57.554	106.843	34.848	1.00100.07	C
ATOM	6748	CG2	VAL	C	427	58.697	107.252	32.669	1.00100.07	C
ATOM	6749	C	VAL	C	427	57.275	109.756	35.280	1.00100.07	C
ATOM	6750	O	VAL	C	427	57.783	110.804	35.667	1.00100.07	C
ATOM	6751	N	ALA	C	428	56.404	109.065	36.012	1.00 70.42	C
ATOM	6752	CA	ALA	C	428	55.921	109.511	37.331	1.00 70.42	C
ATOM	6753	CB	ALA	C	428	57.075	109.655	38.331	1.00 40.60	C
ATOM	6754	C	ALA	C	428	55.180	110.835	37.217	1.00 70.42	C
ATOM	6755	O	ALA	C	428	54.017	110.949	37.599	1.00 70.42	C
ATOM	6756	N	ASP	C	429	55.870	111.829	36.670	1.00 98.97	C
ATOM	6757	CA	ASP	C	429	55.327	113.167	36.493	1.00 98.97	C
ATOM	6758	CB	ASP	C	429	56.434	114.101	36.011	1.00100.07	C
ATOM	6759	CG	ASP	C	429	57.818	113.630	36.431	1.00100.07	C
ATOM	6760	OD1	ASP	C	429	58.078	113.505	37.647	1.00100.07	C
ATOM	6761	OD2	ASP	C	429	58.642	113.385	35.527	1.00100.07	C
ATOM	6762	C	ASP	C	429	54.204	113.136	35.459	1.00 98.97	C
ATOM	6763	O	ASP	C	429	53.097	113.621	35.700	1.00 98.97	C
ATOM	6764	N	VAL	C	430	54.517	112.564	34.300	1.00 99.88	C
ATOM	6765	CA	VAL	C	430	53.582	112.443	33.191	1.00 99.88	C
ATOM	6766	CB	VAL	C	430	54.252	111.700	32.009	1.00100.07	C

ATOM	6767	CG1	VAL	C	430	53.323	111.669	30.818	1.00100.07	C
ATOM	6768	CG2	VAL	C	430	55.559	112.379	31.646	1.00100.07	C
ATOM	6769	C	VAL	C	430	52.303	111.699	33.586	1.00 99.88	C
ATOM	6770	O	VAL	C	430	51.216	112.292	33.634	1.00 99.88	C
ATOM	6771	N	HIS	C	431	52.454	110.401	33.861	1.00100.07	C
ATOM	6772	CA	HIS	C	431	51.354	109.514	34.247	1.00100.07	C
ATOM	6773	CB	HIS	C	431	51.844	108.486	35.282	1.00 87.20	C
ATOM	6774	CG	HIS	C	431	52.949	107.595	34.794	1.00 92.95	C
ATOM	6775	CD2	HIS	C	431	54.226	107.443	35.219	1.00 92.95	C
ATOM	6776	ND1	HIS	C	431	52.777	106.671	33.783	1.00 92.95	C
ATOM	6777	CE1	HIS	C	431	53.898	105.987	33.615	1.00 92.95	C
ATOM	6778	NE2	HIS	C	431	54.792	106.437	34.475	1.00 92.95	C
ATOM	6779	C	HIS	C	431	50.116	110.239	34.801	1.00100.07	C
ATOM	6780	O	HIS	C	431	48.986	109.979	34.373	1.00100.07	C
ATOM	6781	N	ALA	C	432	50.335	111.163	35.732	1.00 61.37	C
ATOM	6782	CA	ALA	C	432	49.251	111.919	36.361	1.00 61.37	C
ATOM	6783	CB	ALA	C	432	49.822	113.072	37.203	1.00 46.95	C
ATOM	6784	C	ALA	C	432	48.207	112.457	35.392	1.00 61.37	C
ATOM	6785	O	ALA	C	432	48.404	112.472	34.183	1.00 61.37	C
ATOM	6786	N	THR	C	433	47.085	112.878	35.961	1.00 38.18	C
ATOM	6787	CA	THR	C	433	45.957	113.422	35.223	1.00 38.18	C
ATOM	6788	CB	THR	C	433	44.633	112.950	35.844	1.00100.07	C
ATOM	6789	OG1	THR	C	433	44.466	111.549	35.615	1.00 99.58	C
ATOM	6790	CG2	THR	C	433	43.475	113.708	35.239	1.00 99.58	C
ATOM	6791	C	THR	C	433	45.934	114.942	35.267	1.00 38.18	C
ATOM	6792	O	THR	C	433	45.799	115.511	36.341	1.00 38.18	C
ATOM	6793	N	HIS	C	434	46.036	115.599	34.115	1.00 47.33	C
ATOM	6794	CA	HIS	C	434	45.987	117.060	34.063	1.00 47.33	C
ATOM	6795	CB	HIS	C	434	46.633	117.561	32.780	1.00 82.00	C
ATOM	6796	CG	HIS	C	434	46.170	116.837	31.555	0.00 35.70	C
ATOM	6797	CD2	HIS	C	434	45.518	117.270	30.452	0.00 35.70	C
ATOM	6798	ND1	HIS	C	434	46.373	115.484	31.372	0.00 35.70	C
ATOM	6799	CE1	HIS	C	434	45.867	115.121	30.205	0.00 35.70	C
ATOM	6800	NE2	HIS	C	434	45.344	116.188	29.628	0.00 35.70	C
ATOM	6801	C	HIS	C	434	44.527	117.476	34.095	1.00 47.33	C
ATOM	6802	O	HIS	C	434	43.638	116.653	33.868	1.00 47.33	C
ATOM	6803	N	TYR	C	435	44.262	118.744	34.373	1.00 99.57	C
ATOM	6804	CA	TYR	C	435	42.878	119.177	34.416	1.00 99.57	C
ATOM	6805	CB	TYR	C	435	42.759	120.593	34.975	1.00 14.53	C
ATOM	6806	CG	TYR	C	435	43.626	121.605	34.293	0.00 5.07	C
ATOM	6807	CD1	TYR	C	435	43.315	122.059	33.017	0.00 5.07	C
ATOM	6808	CE1	TYR	C	435	44.090	123.011	32.394	0.00 5.07	C
ATOM	6809	CD2	TYR	C	435	44.745	122.129	34.931	0.00 5.07	C
ATOM	6810	CE2	TYR	C	435	45.532	123.084	34.318	0.00 5.07	C
ATOM	6811	CZ	TYR	C	435	45.199	123.524	33.050	0.00 5.07	C
ATOM	6812	OH	TYR	C	435	45.974	124.485	32.444	0.00 5.07	C
ATOM	6813	C	TYR	C	435	42.235	119.088	33.044	1.00 99.57	C
ATOM	6814	O	TYR	C	435	41.220	119.722	32.785	1.00 99.57	C
ATOM	6815	N	GLY	C	436	42.857	118.315	32.162	1.00 98.61	C
ATOM	6816	CA	GLY	C	436	42.294	118.122	30.848	1.00 98.61	C
ATOM	6817	C	GLY	C	436	41.415	116.892	30.959	1.00 98.61	C
ATOM	6818	O	GLY	C	436	41.855	115.773	30.711	1.00 98.61	C
ATOM	6819	N	ARG	C	437	40.179	117.091	31.394	1.00 99.71	C
ATOM	6820	CA	ARG	C	437	39.252	115.988	31.507	1.00 99.71	C
ATOM	6821	CB	ARG	C	437	38.003	116.400	32.273	1.00100.07	C
ATOM	6822	CG	ARG	C	437	37.352	117.659	31.791	1.00100.07	C
ATOM	6823	CD	ARG	C	437	36.442	118.215	32.869	1.00100.07	C
ATOM	6824	NE	ARG	C	437	36.153	119.628	32.651	1.00100.07	C
ATOM	6825	CZ	ARG	C	437	35.708	120.458	33.591	1.00100.07	C
ATOM	6826	NH1	ARG	C	437	35.495	120.013	34.824	1.00100.07	C
ATOM	6827	NH2	ARG	C	437	35.482	121.738	33.301	1.00100.07	C
ATOM	6828	C	ARG	C	437	38.911	115.619	30.087	1.00 99.71	C
ATOM	6829	O	ARG	C	437	39.340	116.291	29.153	1.00 99.71	C
ATOM	6830	N	ILE	C	438	38.117	114.563	29.944	1.00100.07	C
ATOM	6831	CA	ILE	C	438	37.703	114.014	28.646	1.00100.07	C
ATOM	6832	CB	ILE	C	438	37.950	114.995	27.490	1.00 29.55	C
ATOM	6833	CG2	ILE	C	438	38.455	114.232	26.265	1.00 29.55	C
ATOM	6834	CG1	ILE	C	438	36.694	115.841	27.283	1.00 29.55	C
ATOM	6835	CD	ILE	C	438	35.411	115.015	27.267	1.00 29.55	C
ATOM	6836	C	ILE	C	438	38.524	112.745	28.413	1.00100.07	C
ATOM	6837	O	ILE	C	438	37.996	111.656	28.146	1.00100.07	C
ATOM	6838	N	CYS	C	439	39.834	112.902	28.468	1.00 91.77	C
ATOM	6839	CA	CYS	C	439	40.686	111.749	28.358	1.00 91.77	C
ATOM	6840	CB	CYS	C	439	42.151	112.179	28.355	1.00 75.81	C
ATOM	6841	SG	CYS	C	439	43.343	110.833	28.162	1.00 75.81	C
ATOM	6842	C	CYS	C	439	40.291	111.102	29.693	1.00 91.77	C
ATOM	6843	O	CYS	C	439	40.270	111.762	30.726	1.00 91.77	C
ATOM	6844	N	PRO	C	440	39.985	109.808	29.687	1.00 40.33	C
ATOM	6845	CD	PRO	C	440	40.706	108.921	28.767	1.00100.07	C
ATOM	6846	CA	PRO	C	440	39.577	109.060	30.878	1.00 40.33	C
ATOM	6847	CB	PRO	C	440	39.945	107.628	30.523	1.00100.07	C
ATOM	6848	CG	PRO	C	440	41.175	107.820	29.692	1.00100.07	C
ATOM	6849	C	PRO	C	440	40.251	109.507	32.155	1.00 40.33	C
ATOM	6850	O	PRO	C	440	41.402	109.953	32.160	1.00 40.33	C

ATOM	6851	N	VAL	C	441	39.530	109.369	33.250	1.00	52.92	C
ATOM	6852	CA	VAL	C	441	40.059	109.761	34.532	1.00	52.92	C
ATOM	6853	CB	VAL	C	441	39.084	110.718	35.231	1.00	44.78	C
ATOM	6854	CG1	VAL	C	441	38.818	111.920	34.349	1.00	44.78	C
ATOM	6855	CG2	VAL	C	441	37.776	110.009	35.504	1.00	44.78	C
ATOM	6856	C	VAL	C	441	40.253	108.509	35.378	1.00	52.92	C
ATOM	6857	O	VAL	C	441	41.299	108.337	36.015	1.00	52.92	C
ATOM	6858	N	ALA	C	442	39.254	107.622	35.351	1.00	40.09	C
ATOM	6859	CA	ALA	C	442	39.275	106.388	36.135	1.00	40.09	C
ATOM	6860	CB	ALA	C	442	37.903	106.147	36.750	1.00	27.54	C
ATOM	6861	C	ALA	C	442	39.691	105.152	35.365	1.00	40.09	C
ATOM	6862	O	ALA	C	442	39.912	104.102	35.965	1.00	40.09	C
ATOM	6863	N	THR	C	443	39.825	105.274	34.048	1.00	55.15	C
ATOM	6864	CA	THR	C	443	40.164	104.107	33.234	1.00	55.15	C
ATOM	6865	CB	THR	C	443	39.019	103.828	32.245	1.00	100.07	C
ATOM	6866	OG1	THR	C	443	37.771	104.218	32.847	1.00	100.07	C
ATOM	6867	CG2	THR	C	443	38.974	102.334	31.903	1.00	100.07	C
ATOM	6868	C	THR	C	443	41.503	104.025	32.473	1.00	55.15	C
ATOM	6869	O	THR	C	443	41.563	104.177	31.249	1.00	55.15	C
ATOM	6870	N	PRO	C	444	42.595	103.763	33.202	1.00	92.64	C
ATOM	6871	CD	PRO	C	444	42.690	103.710	34.670	1.00	100.07	C
ATOM	6872	CA	PRO	C	444	43.923	103.646	32.616	1.00	92.64	C
ATOM	6873	CB	PRO	C	444	44.812	104.177	33.712	1.00	100.07	C
ATOM	6874	CG	PRO	C	444	44.193	103.508	34.892	1.00	100.07	C
ATOM	6875	C	PRO	C	444	44.125	102.159	32.427	1.00	92.64	C
ATOM	6876	O	PRO	C	444	43.165	101.403	32.308	1.00	92.64	C
ATOM	6877	N	GLU	C	445	45.375	101.732	32.444	1.00	35.24	C
ATOM	6878	CA	GLU	C	445	45.664	100.334	32.264	1.00	35.24	C
ATOM	6879	CB	GLU	C	445	46.597	100.128	31.076	1.00	100.07	C
ATOM	6880	CG	GLU	C	445	45.882	99.957	29.747	1.00	100.07	C
ATOM	6881	CD	GLU	C	445	44.960	98.743	29.725	1.00	100.07	C
ATOM	6882	OE1	GLU	C	445	43.792	98.861	30.155	1.00	100.07	C
ATOM	6883	OE2	GLU	C	445	45.410	97.663	29.285	1.00	100.07	C
ATOM	6884	C	GLU	C	445	46.297	99.809	33.510	1.00	35.24	C
ATOM	6885	O	GLU	C	445	46.975	98.796	33.477	1.00	35.24	C
ATOM	6886	N	GLY	C	446	46.077	100.519	34.606	1.00	38.20	C
ATOM	6887	CA	GLY	C	446	46.613	100.127	35.903	1.00	38.20	C
ATOM	6888	C	GLY	C	446	47.905	99.337	36.014	1.00	38.20	C
ATOM	6889	O	GLY	C	446	48.008	98.232	35.504	1.00	38.20	C
ATOM	6890	N	ALA	C	447	48.882	99.904	36.714	1.00	49.32	C
ATOM	6891	CA	ALA	C	447	50.190	99.278	36.927	1.00	49.32	C
ATOM	6892	CB	ALA	C	447	50.063	97.756	36.993	1.00	91.95	C
ATOM	6893	C	ALA	C	447	51.219	99.668	35.873	1.00	49.32	C
ATOM	6894	O	ALA	C	447	50.939	100.464	34.974	1.00	49.32	C
ATOM	6895	N	ASN	C	448	52.420	99.118	36.013	1.00	90.35	C
ATOM	6896	CA	ASN	C	448	53.511	99.393	35.091	1.00	90.35	C
ATOM	6897	CB	ASN	C	448	54.442	98.183	35.031	1.00	100.07	C
ATOM	6898	CG	ASN	C	448	53.701	96.898	34.709	1.00	100.07	C
ATOM	6899	OD1	ASN	C	448	52.552	96.712	35.119	1.00	100.07	C
ATOM	6900	ND2	ASN	C	448	54.360	95.995	33.984	1.00	100.07	C
ATOM	6901	C	ASN	C	448	52.970	99.709	33.708	1.00	90.35	C
ATOM	6902	O	ASN	C	448	52.214	98.925	33.139	1.00	90.35	C
ATOM	6903	N	ILE	C	449	53.337	100.875	33.186	1.00	36.73	C
ATOM	6904	CA	ILE	C	449	52.894	101.305	31.862	1.00	36.73	C
ATOM	6905	CB	ILE	C	449	53.504	100.414	30.749	1.00	100.01	C
ATOM	6906	CG2	ILE	C	449	52.756	100.599	29.430	1.00	100.01	C
ATOM	6907	CG1	ILE	C	449	54.997	100.737	30.609	1.00	100.01	C
ATOM	6908	CD	ILE	C	449	55.311	102.230	30.461	1.00	100.01	C
ATOM	6909	C	ILE	C	449	51.390	101.316	31.731	1.00	36.73	C
ATOM	6910	O	ILE	C	449	50.853	101.883	30.796	1.00	36.73	C
ATOM	6911	N	GLY	C	450	50.704	100.686	32.667	1.00	100.07	C
ATOM	6912	CA	GLY	C	450	49.263	100.689	32.607	1.00	100.07	C
ATOM	6913	C	GLY	C	450	48.840	102.093	32.968	1.00	100.07	C
ATOM	6914	O	GLY	C	450	47.670	102.353	33.250	1.00	100.07	C
ATOM	6915	N	LEU	C	451	49.812	103.001	32.955	1.00	27.08	C
ATOM	6916	CA	LEU	C	451	49.562	104.393	33.296	1.00	27.08	C
ATOM	6917	CB	LEU	C	451	50.470	104.744	34.450	1.00	19.71	C
ATOM	6918	CG	LEU	C	451	50.422	103.577	35.424	1.00	19.71	C
ATOM	6919	CD1	LEU	C	451	51.690	103.552	36.253	1.00	19.71	C
ATOM	6920	CD2	LEU	C	451	49.176	103.691	36.298	1.00	19.71	C
ATOM	6921	C	LEU	C	451	49.816	105.328	32.109	1.00	27.08	C
ATOM	6922	O	LEU	C	451	49.077	106.287	31.853	1.00	27.08	C
ATOM	6923	N	ILE	C	452	50.895	105.038	31.405	1.00	36.86	C
ATOM	6924	CA	ILE	C	452	51.296	105.792	30.239	1.00	36.86	C
ATOM	6925	CB	ILE	C	452	52.493	105.071	29.542	1.00	22.11	C
ATOM	6926	CG2	ILE	C	452	52.370	105.206	28.045	1.00	22.11	C
ATOM	6927	CG1	ILE	C	452	53.844	105.556	30.105	1.00	22.11	C
ATOM	6928	CD	ILE	C	452	54.210	106.997	29.790	1.00	22.11	C
ATOM	6929	C	ILE	C	452	50.093	105.843	29.303	1.00	36.86	C
ATOM	6930	O	ILE	C	452	49.896	106.821	28.593	1.00	36.86	C
ATOM	6931	N	THR	C	453	49.279	104.789	29.341	1.00	54.44	C
ATOM	6932	CA	THR	C	453	48.100	104.651	28.485	1.00	54.44	C
ATOM	6933	CB	THR	C	453	48.107	103.306	27.814	1.00	17.58	C
ATOM	6934	OG1	THR	C	453	48.664	103.451	26.507	1.00	17.58	C

ATOM	6935	CG2	THR	C	453	46.702	102.730	27.743	1.00	17.58	C
ATOM	6936	C	THR	C	453	46.726	104.813	29.111	1.00	54.44	C
ATOM	6937	O	THR	C	453	46.531	104.450	30.266	1.00	54.44	C
ATOM	6938	N	SER	C	454	45.762	105.294	28.319	1.00	53.99	C
ATOM	6939	CA	SER	C	454	44.395	105.521	28.804	1.00	53.99	C
ATOM	6940	CB	SER	C	454	44.306	106.909	29.430	1.00	46.82	C
ATOM	6941	OG	SER	C	454	44.811	107.883	28.534	1.00	46.82	C
ATOM	6942	C	SER	C	454	43.327	105.416	27.719	1.00	53.99	C
ATOM	6943	O	SER	C	454	43.647	105.469	26.531	1.00	53.99	C
ATOM	6944	N	LEU	C	455	42.061	105.289	28.134	1.00	33.07	C
ATOM	6945	CA	LEU	C	455	40.932	105.188	27.197	1.00	33.07	C
ATOM	6946	CB	LEU	C	455	39.746	104.446	27.832	1.00	56.68	C
ATOM	6947	CG	LEU	C	455	39.930	103.450	28.995	1.00	56.68	C
ATOM	6948	CD1	LEU	C	455	38.787	102.452	28.960	1.00	56.68	C
ATOM	6949	CD2	LEU	C	455	41.250	102.699	28.894	1.00	56.68	C
ATOM	6950	C	LEU	C	455	40.513	106.614	26.843	1.00	33.07	C
ATOM	6951	O	LEU	C	455	41.369	107.479	26.731	1.00	33.07	C
ATOM	6952	N	ALA	C	456	39.219	106.866	26.665	1.00	73.31	C
ATOM	6953	CA	ALA	C	456	38.726	108.215	26.343	1.00	73.31	C
ATOM	6954	CB	ALA	C	456	39.063	108.596	24.904	1.00	5.07	C
ATOM	6955	C	ALA	C	456	37.226	108.245	26.521	1.00	73.31	C
ATOM	6956	O	ALA	C	456	36.607	107.203	26.723	1.00	73.31	C
ATOM	6957	N	ALA	C	457	36.642	109.437	26.455	1.00	39.05	C
ATOM	6958	CA	ALA	C	457	35.188	109.584	26.568	1.00	39.05	C
ATOM	6959	CB	ALA	C	457	34.832	110.573	27.649	1.00	55.73	C
ATOM	6960	C	ALA	C	457	34.762	110.118	25.219	1.00	39.05	C
ATOM	6961	O	ALA	C	457	35.588	110.161	24.298	1.00	39.05	C
ATOM	6962	N	TYR	C	458	33.500	110.513	25.070	1.00	33.57	C
ATOM	6963	CA	TYR	C	458	33.127	111.057	23.775	1.00	33.57	C
ATOM	6964	CB	TYR	C	458	31.603	111.238	23.660	1.00	98.79	C
ATOM	6965	CG	TYR	C	458	31.043	112.606	23.985	1.00	98.79	C
ATOM	6966	CD1	TYR	C	458	31.519	113.753	23.345	1.00	98.79	C
ATOM	6967	CE1	TYR	C	458	30.981	114.998	23.613	1.00	98.79	C
ATOM	6968	CD2	TYR	C	458	30.000	112.749	24.904	1.00	98.79	C
ATOM	6969	CE2	TYR	C	458	29.445	113.994	25.177	1.00	98.79	C
ATOM	6970	CZ	TYR	C	458	29.945	115.117	24.528	1.00	98.79	C
ATOM	6971	OH	TYR	C	458	29.425	116.368	24.792	1.00	98.79	C
ATOM	6972	C	TYR	C	458	33.900	112.384	23.646	1.00	33.57	C
ATOM	6973	O	TYR	C	458	34.089	113.090	24.640	1.00	33.57	C
ATOM	6974	N	ALA	C	459	34.359	112.703	22.433	1.00	22.09	C
ATOM	6975	CA	ALA	C	459	35.141	113.915	22.172	1.00	22.09	C
ATOM	6976	CB	ALA	C	459	36.318	113.935	23.038	1.00	5.07	C
ATOM	6977	C	ALA	C	459	35.619	113.939	20.745	1.00	22.09	C
ATOM	6978	O	ALA	C	459	35.297	113.049	19.979	1.00	22.09	C
ATOM	6979	N	ALA	C	460	36.423	114.932	20.392	1.00	62.32	C
ATOM	6980	CA	ALA	C	460	36.937	115.042	19.027	1.00	62.32	C
ATOM	6981	CB	ALA	C	460	37.821	113.826	18.696	1.00	5.07	C
ATOM	6982	C	ALA	C	460	35.789	115.152	18.009	1.00	62.32	C
ATOM	6983	O	ALA	C	460	34.907	114.290	17.972	1.00	62.32	C
ATOM	6984	N	ALA	C	461	35.803	116.219	17.200	1.00	100.07	C
ATOM	6985	CA	ALA	C	461	34.795	116.489	16.146	1.00	100.07	C
ATOM	6986	CB	ALA	C	461	33.401	115.988	16.560	1.00	72.39	C
ATOM	6987	C	ALA	C	461	34.717	117.976	15.792	1.00	100.07	C
ATOM	6988	O	ALA	C	461	34.484	118.819	16.661	1.00	100.07	C
ATOM	6989	N	ALA	C	462	34.900	118.274	14.507	1.00	100.07	C
ATOM	6990	CA	ALA	C	462	34.877	119.642	13.972	1.00	100.07	C
ATOM	6991	CB	ALA	C	462	33.968	120.547	14.823	1.00	100.07	C
ATOM	6992	C	ALA	C	462	36.298	120.215	13.914	1.00	100.07	C
ATOM	6993	O	ALA	C	462	36.855	120.618	14.938	1.00	100.07	C
ATOM	6994	N	ALA	C	463	36.871	120.249	12.709	1.00	100.07	C
ATOM	6995	CA	ALA	C	463	38.230	120.739	12.488	1.00	100.07	C
ATOM	6996	CB	ALA	C	463	38.453	122.082	13.236	1.00	13.60	C
ATOM	6997	C	ALA	C	463	39.252	119.670	12.935	1.00	100.07	C
ATOM	6998	O	ALA	C	463	39.422	119.395	14.134	1.00	100.07	C
ATOM	6999	N	ALA	C	464	39.910	119.058	11.950	1.00	100.07	C
ATOM	7000	CA	ALA	C	464	40.909	118.012	12.182	1.00	100.07	C
ATOM	7001	CB	ALA	C	464	41.279	117.336	10.864	1.00	95.64	C
ATOM	7002	C	ALA	C	464	42.158	118.568	12.837	1.00	100.07	C
ATOM	7003	O	ALA	C	464	42.126	119.656	13.407	1.00	100.07	C
ATOM	7004	N	GLY	C	465	43.257	117.822	12.741	1.00	89.40	C
ATOM	7005	CA	GLY	C	465	44.505	118.256	13.349	1.00	89.40	C
ATOM	7006	C	GLY	C	465	44.156	119.057	14.579	1.00	89.40	C
ATOM	7007	O	GLY	C	465	44.640	120.176	14.756	1.00	89.40	C
ATOM	7008	N	ALA	C	466	43.282	118.470	15.401	1.00	67.76	C
ATOM	7009	CA	ALA	C	466	42.772	119.082	16.623	1.00	67.76	C
ATOM	7010	CB	ALA	C	466	41.215	119.152	16.548	1.00	5.07	C
ATOM	7011	C	ALA	C	466	43.236	118.345	17.895	1.00	67.76	C
ATOM	7012	O	ALA	C	466	44.175	117.539	17.850	1.00	67.76	C
ATOM	7013	N	ALA	C	467	42.580	118.629	19.022	1.00	45.17	C
ATOM	7014	CA	ALA	C	467	42.933	118.010	20.305	1.00	45.17	C
ATOM	7015	CB	ALA	C	467	43.887	118.928	21.065	1.00	100.07	C
ATOM	7016	C	ALA	C	467	41.765	117.594	21.230	1.00	45.17	C
ATOM	7017	O	ALA	C	467	41.395	118.307	22.171	1.00	45.17	C
ATOM	7018	N	ALA	C	468	41.227	116.409	20.961	1.00	62.76	C

ATOM	7019	CA	ALA	C	468	40.130	115.828	21.721	1.00	62.76	C
ATOM	7020	CB	ALA	C	468	40.641	115.345	23.074	1.00	5.07	C
ATOM	7021	C	ALA	C	468	38.944	116.783	21.878	1.00	62.76	C
ATOM	7022	O	ALA	C	468	37.877	116.520	21.335	1.00	62.76	C
ATOM	7023	N	THR	C	469	39.121	117.870	22.624	1.00	53.13	C
ATOM	7024	CA	THR	C	469	38.073	118.887	22.818	1.00	53.13	C
ATOM	7025	CB	THR	C	469	38.116	119.904	21.648	1.00	41.18	C
ATOM	7026	OG1	THR	C	469	37.438	119.380	20.501	1.00	41.18	C
ATOM	7027	CG2	THR	C	469	39.539	120.150	21.251	1.00	41.18	C
ATOM	7028	C	THR	C	469	36.608	118.427	23.009	1.00	53.13	C
ATOM	7029	O	THR	C	469	35.883	118.210	22.044	1.00	53.13	C
ATOM	7030	N	PRO	C	470	36.150	118.307	24.266	1.00	61.21	C
ATOM	7031	CD	PRO	C	470	36.879	118.665	25.492	1.00	86.46	C
ATOM	7032	CA	PRO	C	470	34.780	117.881	24.586	1.00	61.21	C
ATOM	7033	CB	PRO	C	470	34.792	117.798	26.097	1.00	86.46	C
ATOM	7034	CG	PRO	C	470	35.756	118.877	26.464	1.00	86.46	C
ATOM	7035	C	PRO	C	470	33.738	118.876	24.095	1.00	61.21	C
ATOM	7036	O	PRO	C	470	34.092	119.911	23.528	1.00	61.21	C
ATOM	7037	N	TYR	C	471	32.458	118.568	24.314	1.00	26.59	C
ATOM	7038	CA	TYR	C	471	31.387	119.458	23.878	1.00	26.59	C
ATOM	7039	CB	TYR	C	471	30.331	118.715	23.047	1.00	99.64	C
ATOM	7040	CG	TYR	C	471	30.826	117.874	21.878	1.00	99.64	C
ATOM	7041	CD1	TYR	C	471	29.916	117.176	21.083	1.00	99.64	C
ATOM	7042	CE1	TYR	C	471	30.341	116.342	20.068	1.00	99.64	C
ATOM	7043	CD2	TYR	C	471	32.188	117.715	21.609	1.00	99.64	C
ATOM	7044	CE2	TYR	C	471	32.625	116.878	20.591	1.00	99.64	C
ATOM	7045	CZ	TYR	C	471	31.694	116.192	19.829	1.00	99.64	C
ATOM	7046	OH	TYR	C	471	32.107	115.328	18.843	1.00	99.64	C
ATOM	7047	C	TYR	C	471	30.716	119.983	25.122	1.00	26.59	C
ATOM	7048	O	TYR	C	471	30.468	119.212	26.047	1.00	26.59	C
ATOM	7049	N	ARG	C	472	30.422	121.282	25.152	1.00	42.17	C
ATOM	7050	CA	ARG	C	472	29.752	121.883	26.310	1.00	42.17	C
ATOM	7051	CB	ARG	C	472	30.780	122.539	27.238	1.00	67.73	C
ATOM	7052	CG	ARG	C	472	30.962	121.786	28.542	1.00	67.73	C
ATOM	7053	CD	ARG	C	472	32.154	122.279	29.336	1.00	67.73	C
ATOM	7054	NE	ARG	C	472	33.422	122.064	28.644	1.00	67.73	C
ATOM	7055	CZ	ARG	C	472	34.582	121.856	29.263	1.00	67.73	C
ATOM	7056	NH1	ARG	C	472	34.637	121.831	30.589	1.00	67.73	C
ATOM	7057	NH2	ARG	C	472	35.691	121.675	28.559	1.00	67.73	C
ATOM	7058	C	ARG	C	472	28.644	122.886	25.957	1.00	42.17	C
ATOM	7059	O	ARG	C	472	28.883	123.924	25.340	1.00	42.17	C
ATOM	7060	N	ALA	C	473	27.423	122.558	26.361	1.00	100.07	C
ATOM	7061	CA	ALA	C	473	26.269	123.407	26.093	1.00	100.07	C
ATOM	7062	CB	ALA	C	473	25.046	122.874	26.869	1.00	11.39	C
ATOM	7063	C	ALA	C	473	26.561	124.850	26.499	1.00	100.07	C
ATOM	7064	O	ALA	C	473	27.310	125.078	27.448	1.00	100.07	C
ATOM	7065	N	VAL	C	474	25.992	125.817	25.773	1.00	45.41	C
ATOM	7066	CA	VAL	C	474	26.161	127.245	26.100	1.00	45.41	C
ATOM	7067	CB	VAL	C	474	26.936	127.995	24.983	1.00	99.87	C
ATOM	7068	CG1	VAL	C	474	27.150	129.452	25.373	1.00	99.87	C
ATOM	7069	CG2	VAL	C	474	28.286	127.329	24.756	1.00	99.87	C
ATOM	7070	C	VAL	C	474	24.768	127.882	26.297	1.00	45.41	C
ATOM	7071	O	VAL	C	474	24.343	128.737	25.520	1.00	45.41	C
ATOM	7072	N	ALA	C	475	24.080	127.454	27.358	1.00	55.11	C
ATOM	7073	CA	ALA	C	475	22.712	127.889	27.682	1.00	55.11	C
ATOM	7074	CB	ALA	C	475	22.716	129.277	28.250	1.00	74.41	C
ATOM	7075	C	ALA	C	475	21.749	127.797	26.482	1.00	55.11	C
ATOM	7076	O	ALA	C	475	21.796	128.597	25.538	1.00	55.11	C
ATOM	7077	N	ALA	C	476	20.882	126.791	26.537	1.00	53.15	C
ATOM	7078	CA	ALA	C	476	19.914	126.534	25.487	1.00	53.15	C
ATOM	7079	CB	ALA	C	476	18.952	127.699	25.385	1.00	25.83	C
ATOM	7080	C	ALA	C	476	20.579	126.276	24.132	1.00	53.15	C
ATOM	7081	O	ALA	C	476	19.952	125.744	23.214	1.00	53.15	C
ATOM	7082	N	GLY	C	477	21.850	126.643	24.016	1.00	63.12	C
ATOM	7083	CA	GLY	C	477	22.572	126.465	22.768	1.00	63.12	C
ATOM	7084	C	GLY	C	477	22.612	125.063	22.193	1.00	63.12	C
ATOM	7085	O	GLY	C	477	21.673	124.280	22.332	1.00	63.12	C
ATOM	7086	N	ALA	C	478	23.718	124.753	21.526	1.00	76.01	C
ATOM	7087	CA	ALA	C	478	23.903	123.444	20.918	1.00	76.01	C
ATOM	7088	CB	ALA	C	478	24.228	123.591	19.449	1.00	100.07	C
ATOM	7089	C	ALA	C	478	25.016	122.680	21.620	1.00	76.01	C
ATOM	7090	O	ALA	C	478	24.746	121.757	22.390	1.00	76.01	C
ATOM	7091	N	ALA	C	479	26.267	123.055	21.366	1.00	52.97	C
ATOM	7092	CA	ALA	C	479	27.363	122.347	22.017	1.00	52.97	C
ATOM	7093	CB	ALA	C	479	27.393	120.899	21.529	1.00	14.76	C
ATOM	7094	C	ALA	C	479	28.761	122.959	21.914	1.00	52.97	C
ATOM	7095	O	ALA	C	479	29.452	123.083	22.924	1.00	52.97	C
ATOM	7096	N	ALA	C	480	29.185	123.329	20.710	1.00	64.02	C
ATOM	7097	CA	ALA	C	480	30.516	123.907	20.523	1.00	64.02	C
ATOM	7098	CB	ALA	C	480	30.622	125.259	21.263	1.00	25.96	C
ATOM	7099	C	ALA	C	480	31.579	122.939	21.043	1.00	64.02	C
ATOM	7100	O	ALA	C	480	31.650	122.662	22.242	1.00	64.02	C
ATOM	7101	N	ALA	C	481	32.405	122.415	20.147	1.00	51.87	C
ATOM	7102	CA	ALA	C	481	33.447	121.485	20.567	1.00	51.87	C

ATOM	7103	CB	ALA	C	481	33.818	120.556	19.419	1.00	88.09	C
ATOM	7104	C	ALA	C	481	34.670	122.263	21.038	1.00	51.87	C
ATOM	7105	O	ALA	C	481	35.693	122.326	20.345	1.00	51.87	C
ATOM	7106	N	ALA	C	482	34.557	122.843	22.230	1.00	70.79	C
ATOM	7107	CA	ALA	C	482	35.626	123.651	22.811	1.00	70.79	C
ATOM	7108	CB	ALA	C	482	35.196	124.184	24.189	1.00	84.75	C
ATOM	7109	C	ALA	C	482	36.975	122.951	22.921	1.00	70.79	C
ATOM	7110	O	ALA	C	482	37.091	121.889	23.532	1.00	70.79	C
ATOM	7111	N	ALA	C	483	37.990	123.562	22.313	1.00	39.85	C
ATOM	7112	CA	ALA	C	483	39.346	123.041	22.359	1.00	39.85	C
ATOM	7113	CB	ALA	C	483	40.277	123.933	21.568	1.00	66.62	C
ATOM	7114	C	ALA	C	483	39.744	123.045	23.822	1.00	39.85	C
ATOM	7115	O	ALA	C	483	39.102	123.695	24.643	1.00	39.85	C
ATOM	7116	N	ALA	C	484	40.789	122.314	24.165	1.00	45.49	C
ATOM	7117	CA	ALA	C	484	41.210	122.296	25.553	1.00	45.49	C
ATOM	7118	CB	ALA	C	484	42.503	121.510	25.698	1.00	83.60	C
ATOM	7119	C	ALA	C	484	41.432	123.750	25.930	1.00	45.49	C
ATOM	7120	O	ALA	C	484	41.262	124.135	27.078	1.00	45.49	C
ATOM	7121	N	ALA	C	485	41.788	124.552	24.928	1.00	62.49	C
ATOM	7122	CA	ALA	C	485	42.062	125.975	25.103	1.00	62.49	C
ATOM	7123	CB	ALA	C	485	42.387	126.604	23.766	1.00	75.01	C
ATOM	7124	C	ALA	C	485	40.939	126.750	25.776	1.00	62.49	C
ATOM	7125	O	ALA	C	485	41.170	127.828	26.316	1.00	62.49	C
ATOM	7126	N	ALA	C	486	39.721	126.224	25.735	1.00	68.78	C
ATOM	7127	CA	ALA	C	486	38.613	126.907	26.385	1.00	68.78	C
ATOM	7128	CB	ALA	C	486	37.278	126.262	26.000	1.00	45.92	C
ATOM	7129	C	ALA	C	486	38.856	126.800	27.890	1.00	68.78	C
ATOM	7130	O	ALA	C	486	38.016	126.309	28.646	1.00	68.78	C
ATOM	7131	N	ALA	C	487	40.039	127.248	28.302	1.00	100.07	C
ATOM	7132	CA	ALA	C	487	40.446	127.243	29.700	1.00	100.07	C
ATOM	7133	CB	ALA	C	487	41.950	126.961	29.820	1.00	8.81	C
ATOM	7134	C	ALA	C	487	40.123	128.623	30.260	1.00	100.07	C
ATOM	7135	O	ALA	C	487	40.944	129.249	30.936	1.00	100.07	C
ATOM	7136	N	ALA	C	488	38.918	129.092	29.957	1.00	100.07	C
ATOM	7137	CA	ALA	C	488	38.450	130.394	30.411	1.00	100.07	C
ATOM	7138	CB	ALA	C	488	38.844	131.475	29.380	1.00	44.69	C
ATOM	7139	C	ALA	C	488	36.930	130.314	30.560	1.00	100.07	C
ATOM	7140	O	ALA	C	488	36.400	129.370	31.149	1.00	100.07	C
ATOM	7141	N	ALA	C	489	36.247	131.322	30.033	1.00	77.46	C
ATOM	7142	CA	ALA	C	489	34.791	131.404	30.034	1.00	77.46	C
ATOM	7143	CB	ALA	C	489	34.251	130.446	28.962	1.00	50.89	C
ATOM	7144	C	ALA	C	489	34.006	131.223	31.355	1.00	77.46	C
ATOM	7145	O	ALA	C	489	32.953	131.850	31.532	1.00	77.46	C
ATOM	7146	N	ALA	C	490	34.500	130.382	32.266	1.00	46.88	C
ATOM	7147	CA	ALA	C	490	33.826	130.117	33.547	1.00	46.88	C
ATOM	7148	CB	ALA	C	490	33.077	131.362	34.034	1.00	5.07	C
ATOM	7149	C	ALA	C	490	32.846	128.944	33.443	1.00	46.88	C
ATOM	7150	O	ALA	C	490	31.669	129.085	33.763	1.00	46.88	C
ATOM	7151	N	ALA	C	491	33.348	127.788	33.014	1.00	51.44	C
ATOM	7152	CA	ALA	C	491	32.547	126.574	32.840	1.00	51.44	C
ATOM	7153	CB	ALA	C	491	33.468	125.407	32.487	1.00	61.55	C
ATOM	7154	C	ALA	C	491	31.638	126.175	34.007	1.00	51.44	C
ATOM	7155	O	ALA	C	491	32.079	126.143	35.159	1.00	51.44	C
ATOM	7156	N	ALA	C	492	30.379	125.845	33.700	1.00	44.47	C
ATOM	7157	CA	ALA	C	492	29.408	125.443	34.733	1.00	44.47	C
ATOM	7158	CB	ALA	C	492	28.175	126.339	34.676	1.00	47.73	C
ATOM	7159	C	ALA	C	492	28.986	123.980	34.617	1.00	44.47	C
ATOM	7160	O	ALA	C	492	28.338	123.594	33.644	1.00	44.47	C
ATOM	7161	N	ALA	C	493	29.344	123.195	35.638	1.00	80.97	C
ATOM	7162	CA	ALA	C	493	29.065	121.752	35.715	1.00	80.97	C
ATOM	7163	CB	ALA	C	493	29.654	121.161	37.028	1.00	41.43	C
ATOM	7164	C	ALA	C	493	27.593	121.381	35.597	1.00	80.97	C
ATOM	7165	O	ALA	C	493	26.718	122.178	35.923	1.00	80.97	C
ATOM	7166	N	ALA	C	494	27.343	120.156	35.134	1.00	52.40	C
ATOM	7167	CA	ALA	C	494	25.995	119.627	34.945	1.00	52.40	C
ATOM	7168	CB	ALA	C	494	26.064	118.183	34.567	1.00	11.52	C
ATOM	7169	C	ALA	C	494	25.155	119.772	36.195	1.00	52.40	C
ATOM	7170	O	ALA	C	494	25.678	119.660	37.306	1.00	52.40	C
ATOM	7171	N	ALA	C	495	23.853	119.998	36.002	1.00	60.75	C
ATOM	7172	CA	ALA	C	495	22.893	120.184	37.095	1.00	60.75	C
ATOM	7173	CB	ALA	C	495	23.368	119.445	38.365	1.00	29.87	C
ATOM	7174	C	ALA	C	495	22.643	121.670	37.412	1.00	60.75	C
ATOM	7175	O	ALA	C	495	23.558	122.500	37.380	1.00	60.75	C
ATOM	7176	N	ALA	C	496	21.388	121.987	37.720	1.00	91.47	C
ATOM	7177	CA	ALA	C	496	20.953	123.344	38.053	1.00	91.47	C
ATOM	7178	CB	ALA	C	496	21.526	124.346	37.057	1.00	100.07	C
ATOM	7179	C	ALA	C	496	19.432	123.331	37.965	1.00	91.47	C
ATOM	7180	O	ALA	C	496	18.737	123.808	38.863	1.00	91.47	C
ATOM	7181	N	ALA	C	497	18.955	122.758	36.860	1.00	100.07	C
ATOM	7182	CA	ALA	C	497	17.541	122.589	36.513	1.00	100.07	C
ATOM	7183	CB	ALA	C	497	17.111	121.140	36.806	1.00	69.36	C
ATOM	7184	C	ALA	C	497	16.518	123.563	37.100	1.00	100.07	C
ATOM	7185	O	ALA	C	497	16.255	123.570	38.301	1.00	100.07	C
ATOM	7186	N	ALA	C	498	15.932	124.369	36.219	1.00	100.07	C

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ATOM	7187	CA	ALA	C	498	14.913	125.352	36.579	1.00100.07	C
ATOM	7188	CB	ALA	C	498	15.534	126.509	37.346	1.00 16.63	C
ATOM	7189	C	ALA	C	498	14.296	125.850	35.275	1.00100.07	C
ATOM	7190	O	ALA	C	498	14.681	126.900	34.752	1.00100.07	C
ATOM	7191	N	ALA	C	499	13.337	125.082	34.760	1.00100.07	C
ATOM	7192	CA	ALA	C	499	12.665	125.397	33.497	1.00100.07	C
ATOM	7193	CB	ALA	C	499	12.067	126.811	33.541	1.00100.07	C
ATOM	7194	C	ALA	C	499	13.732	125.300	32.412	1.00100.07	C
ATOM	7195	O	ALA	C	499	14.198	124.208	32.083	1.00100.07	C
ATOM	7196	N	ALA	C	500	14.108	126.445	31.858	1.00 75.11	C
ATOM	7197	CA	ALA	C	500	15.155	126.509	30.850	1.00 75.11	C
ATOM	7198	CB	ALA	C	500	14.578	126.921	29.504	1.00 12.62	C
ATOM	7199	C	ALA	C	500	16.107	127.576	31.381	1.00 75.11	C
ATOM	7200	O	ALA	C	500	17.127	127.884	30.767	1.00 75.11	C
ATOM	7201	N	ALA	C	501	15.755	128.109	32.553	1.00 84.78	C
ATOM	7202	CA	ALA	C	501	16.515	129.157	33.237	1.00 84.78	C
ATOM	7203	CB	ALA	C	501	15.555	130.250	33.722	1.00100.07	C
ATOM	7204	C	ALA	C	501	17.323	128.619	34.419	1.00 84.78	C
ATOM	7205	O	ALA	C	501	16.785	127.908	35.263	1.00 84.78	C
ATOM	7206	N	ALA	C	502	18.605	128.980	34.479	1.00 33.77	C
ATOM	7207	CA	ALA	C	502	19.498	128.538	35.547	1.00 33.77	C
ATOM	7208	CB	ALA	C	502	20.659	129.513	35.677	1.00 5.07	C
ATOM	7209	C	ALA	C	502	18.741	128.414	36.868	1.00 33.77	C
ATOM	7210	O	ALA	C	502	18.237	127.345	37.200	1.00 33.77	C
ATOM	7211	N	ALA	C	503	18.675	129.503	37.622	1.00 99.79	C
ATOM	7212	CA	ALA	C	503	17.937	129.537	38.885	1.00 99.79	C
ATOM	7213	CB	ALA	C	503	16.459	129.284	38.612	1.00100.07	C
ATOM	7214	C	ALA	C	503	18.399	128.645	40.042	1.00 99.79	C
ATOM	7215	O	ALA	C	503	17.743	127.655	40.386	1.00 99.79	C
ATOM	7216	N	ALA	C	504	19.518	129.028	40.649	1.00 99.95	C
ATOM	7217	CA	ALA	C	504	20.092	128.337	41.799	1.00 99.95	C
ATOM	7218	CB	ALA	C	504	20.960	127.181	41.365	1.00 27.97	C
ATOM	7219	C	ALA	C	504	20.937	129.401	42.454	1.00 99.95	C
ATOM	7220	O	ALA	C	504	21.435	129.226	43.562	1.00 99.95	C
ATOM	7221	N	GLY	C	505	21.092	130.507	41.731	1.00 49.62	C
ATOM	7222	CA	GLY	C	505	21.855	131.636	42.220	1.00 49.62	C
ATOM	7223	C	GLY	C	505	23.106	131.257	42.983	1.00 49.62	C
ATOM	7224	O	GLY	C	505	23.434	131.872	44.006	1.00 49.62	C
ATOM	7225	N	ALA	C	506	23.797	130.235	42.483	1.00100.07	C
ATOM	7226	CA	ALA	C	506	25.042	129.741	43.076	1.00100.07	C
ATOM	7227	CB	ALA	C	506	24.738	128.744	44.194	1.00100.07	C
ATOM	7228	C	ALA	C	506	25.861	129.072	41.965	1.00100.07	C
ATOM	7229	O	ALA	C	506	26.998	129.464	41.686	1.00100.07	C
ATOM	7230	N	ALA	C	507	25.266	128.062	41.338	1.00 69.47	C
ATOM	7231	CA	ALA	C	507	25.898	127.355	40.239	1.00 69.47	C
ATOM	7232	CB	ALA	C	507	25.920	128.259	39.011	1.00 11.32	C
ATOM	7233	C	ALA	C	507	27.312	126.907	40.565	1.00 69.47	C
ATOM	7234	O	ALA	C	507	28.223	127.733	40.571	1.00 69.47	C
ATOM	7235	N	ALA	C	508	27.516	125.619	40.842	1.00 58.95	C
ATOM	7236	CA	ALA	C	508	28.880	125.157	41.123	1.00 58.95	C
ATOM	7237	CB	ALA	C	508	28.894	123.738	41.710	1.00 5.07	C
ATOM	7238	C	ALA	C	508	29.537	125.155	39.765	1.00 58.95	C
ATOM	7239	O	ALA	C	508	28.899	124.805	38.771	1.00 58.95	C
ATOM	7240	N	ALA	C	509	30.796	125.557	39.696	1.00 36.57	C
ATOM	7241	CA	ALA	C	509	31.445	125.563	38.396	1.00 36.57	C
ATOM	7242	CB	ALA	C	509	30.896	126.694	37.549	1.00 16.32	C
ATOM	7243	C	ALA	C	509	32.957	125.642	38.454	1.00 36.57	C
ATOM	7244	O	ALA	C	509	33.561	125.630	39.535	1.00 36.57	C
ATOM	7245	N	ALA	C	510	33.559	125.722	37.272	1.00 16.98	C
ATOM	7246	CA	ALA	C	510	35.004	125.779	37.156	1.00 16.98	C
ATOM	7247	CB	ALA	C	510	35.538	124.450	36.616	1.00 80.19	C
ATOM	7248	C	ALA	C	510	35.442	126.906	36.250	1.00 16.98	C
ATOM	7249	O	ALA	C	510	34.740	127.298	35.319	1.00 16.98	C
ATOM	7250	N	ALA	C	511	36.626	127.416	36.533	1.00 77.42	C
ATOM	7251	CA	ALA	C	511	37.192	128.482	35.742	1.00 77.42	C
ATOM	7252	CB	ALA	C	511	36.873	129.836	36.380	1.00 5.07	C
ATOM	7253	C	ALA	C	511	38.695	128.215	35.701	1.00 77.42	C
ATOM	7254	O	ALA	C	511	39.383	128.268	36.725	1.00 77.42	C
ATOM	7255	N	ALA	C	512	39.181	127.888	34.506	1.00 67.81	C
ATOM	7256	CA	ALA	C	512	40.586	127.585	34.273	1.00 67.81	C
ATOM	7257	CB	ALA	C	512	41.474	128.721	34.786	1.00 94.60	C
ATOM	7258	C	ALA	C	512	40.970	126.270	34.933	1.00 67.81	C
ATOM	7259	O	ALA	C	512	41.817	125.540	34.410	1.00 67.81	C
ATOM	7260	N	ALA	C	513	40.341	125.963	36.068	1.00 86.56	C
ATOM	7261	CA	ALA	C	513	40.619	124.724	36.803	1.00 86.56	C
ATOM	7262	CB	ALA	C	513	42.117	124.620	37.101	1.00100.07	C
ATOM	7263	C	ALA	C	513	39.832	124.619	38.110	1.00 86.56	C
ATOM	7264	O	ALA	C	513	39.083	123.666	38.326	1.00 86.56	C
ATOM	7265	N	ALA	C	514	40.030	125.606	38.978	1.00 54.32	C
ATOM	7266	CA	ALA	C	514	39.378	125.673	40.275	1.00 54.32	C
ATOM	7267	CB	ALA	C	514	39.504	127.077	40.841	1.00 86.08	C
ATOM	7268	C	ALA	C	514	37.916	125.279	40.219	1.00 54.32	C
ATOM	7269	O	ALA	C	514	37.228	125.524	39.231	1.00 54.32	C
ATOM	7270	N	ALA	C	515	37.456	124.653	41.293	1.00 75.05	C

ATOM	7271	CA	ALA	C	515	36.066	124.249	41.408	1.00	75.05	C
ATOM	7272	CB	ALA	C	515	35.958	122.984	42.266	1.00	19.56	C
ATOM	7273	C	ALA	C	515	35.369	125.430	42.089	1.00	75.05	C
ATOM	7274	O	ALA	C	515	34.714	125.272	43.119	1.00	75.05	C
ATOM	7275	N	ALA	C	516	35.527	126.615	41.502	1.00	33.77	C
ATOM	7276	CA	ALA	C	516	34.962	127.851	42.041	1.00	33.77	C
ATOM	7277	CB	ALA	C	516	35.715	129.048	41.450	1.00	5.07	C
ATOM	7278	C	ALA	C	516	33.453	128.032	41.853	1.00	33.77	C
ATOM	7279	O	ALA	C	516	32.946	127.977	40.732	1.00	33.77	C
ATOM	7280	N	ALA	C	517	32.765	128.268	42.978	1.00	29.64	C
ATOM	7281	CA	ALA	C	517	31.307	128.477	43.060	1.00	29.64	C
ATOM	7282	CB	ALA	C	517	30.881	128.551	44.514	1.00	26.55	C
ATOM	7283	C	ALA	C	517	30.825	129.731	42.319	1.00	29.64	C
ATOM	7284	O	ALA	C	517	30.688	130.813	42.903	1.00	29.64	C
ATOM	7285	N	ALA	C	518	30.559	129.531	41.026	1.00	100.07	C
ATOM	7286	CA	ALA	C	518	30.105	130.538	40.058	1.00	100.07	C
ATOM	7287	CB	ALA	C	518	29.288	129.857	38.961	1.00	96.52	C
ATOM	7288	C	ALA	C	518	29.348	131.760	40.542	1.00	100.07	C
ATOM	7289	O	ALA	C	518	28.626	131.722	41.537	1.00	100.07	C
ATOM	7290	N	GLY	C	519	29.514	132.843	39.791	1.00	96.72	C
ATOM	7291	CA	GLY	C	519	28.853	134.086	40.117	1.00	96.72	C
ATOM	7292	C	GLY	C	519	27.441	134.128	39.568	1.00	96.72	C
ATOM	7293	O	GLY	C	519	26.932	135.203	39.257	1.00	96.72	C
ATOM	7294	N	ALA	C	520	26.810	132.962	39.439	1.00	72.63	C
ATOM	7295	CA	ALA	C	520	25.435	132.866	38.934	1.00	72.63	C
ATOM	7296	CB	ALA	C	520	24.493	133.622	39.859	1.00	80.18	C
ATOM	7297	C	ALA	C	520	25.254	133.364	37.499	1.00	72.63	C
ATOM	7298	O	ALA	C	520	24.257	133.054	36.850	1.00	72.63	C
ATOM	7299	N	ALA	C	521	26.224	134.142	37.027	1.00	89.56	C
ATOM	7300	CA	ALA	C	521	26.226	134.708	35.684	1.00	89.56	C
ATOM	7301	CB	ALA	C	521	26.827	133.704	34.708	1.00	35.64	C
ATOM	7302	C	ALA	C	521	24.850	135.167	35.194	1.00	89.56	C
ATOM	7303	O	ALA	C	521	24.307	136.171	35.671	1.00	89.56	C
ATOM	7304	N	VAL	C	522	24.303	134.441	34.219	1.00	100.07	C
ATOM	7305	CA	VAL	C	522	22.991	134.745	33.634	1.00	100.07	C
ATOM	7306	CB	VAL	C	522	23.114	134.979	32.084	1.00	83.70	C
ATOM	7307	CG1	VAL	C	522	21.784	135.464	31.502	1.00	83.70	C
ATOM	7308	CG2	VAL	C	522	24.215	136.011	31.801	1.00	83.70	C
ATOM	7309	C	VAL	C	522	21.975	133.616	33.924	1.00	100.07	C
ATOM	7310	O	VAL	C	522	21.917	133.090	35.045	1.00	100.07	C
ATOM	7311	N	ILE	C	523	21.175	133.265	32.919	1.00	100.07	C
ATOM	7312	CA	ILE	C	523	20.161	132.216	33.027	1.00	100.07	C
ATOM	7313	CB	ILE	C	523	18.713	132.835	33.101	1.00	100.07	C
ATOM	7314	CG2	ILE	C	523	17.769	132.176	32.089	1.00	100.07	C
ATOM	7315	CG1	ILE	C	523	18.135	132.677	34.516	1.00	100.07	C
ATOM	7316	CD	ILE	C	523	16.702	133.203	34.668	1.00	100.07	C
ATOM	7317	C	ILE	C	523	20.310	131.359	31.777	1.00	100.07	C
ATOM	7318	O	ILE	C	523	20.599	130.162	31.851	1.00	100.07	C
ATOM	7319	N	VAL	C	524	20.129	131.989	30.622	1.00	99.13	C
ATOM	7320	CA	VAL	C	524	20.276	131.291	29.360	1.00	99.13	C
ATOM	7321	CB	VAL	C	524	18.952	130.788	28.798	1.00	100.07	C
ATOM	7322	CG1	VAL	C	524	19.235	129.833	27.645	1.00	100.07	C
ATOM	7323	CG2	VAL	C	524	18.184	130.073	29.858	1.00	100.07	C
ATOM	7324	C	VAL	C	524	20.929	132.214	28.354	1.00	99.13	C
ATOM	7325	O	VAL	C	524	20.892	131.997	27.152	1.00	99.13	C
ATOM	7326	N	ALA	C	525	21.506	133.285	28.873	1.00	99.85	C
ATOM	7327	CA	ALA	C	525	22.274	134.218	28.062	1.00	99.85	C
ATOM	7328	CB	ALA	C	525	21.930	135.638	28.432	1.00	54.65	C
ATOM	7329	C	ALA	C	525	23.574	133.771	28.730	1.00	99.85	C
ATOM	7330	O	ALA	C	525	24.447	134.587	29.042	1.00	99.85	C
ATOM	7331	N	PRO	C	526	23.730	132.452	28.894	1.00	100.07	C
ATOM	7332	CD	PRO	C	526	23.555	132.065	27.477	1.00	69.64	C
ATOM	7333	CA	PRO	C	526	24.693	131.491	29.469	1.00	100.07	C
ATOM	7334	CB	PRO	C	526	25.317	130.789	28.249	1.00	69.64	C
ATOM	7335	CG	PRO	C	526	24.923	131.579	27.115	1.00	69.64	C
ATOM	7336	C	PRO	C	526	25.745	131.972	30.462	1.00	100.07	C
ATOM	7337	O	PRO	C	526	25.488	132.773	31.371	1.00	100.07	C
ATOM	7338	N	GLU	C	527	26.930	131.398	30.294	1.00	100.07	C
ATOM	7339	CA	GLU	C	527	28.128	131.674	31.086	1.00	100.07	C
ATOM	7340	CB	GLU	C	527	28.148	130.875	32.387	1.00	100.07	C
ATOM	7341	CG	GLU	C	527	26.940	131.095	33.244	1.00	100.07	C
ATOM	7342	CD	GLU	C	527	26.644	129.911	34.133	1.00	100.07	C
ATOM	7343	OE1	GLU	C	527	27.364	129.714	35.139	1.00	100.07	C
ATOM	7344	OE2	GLU	C	527	25.689	129.165	33.811	1.00	100.07	C
ATOM	7345	C	GLU	C	527	29.125	131.078	30.118	1.00	100.07	C
ATOM	7346	O	GLU	C	527	30.330	131.104	30.344	1.00	100.07	C
ATOM	7347	N	ALA	C	528	28.554	130.540	29.038	1.00	81.93	C
ATOM	7348	CA	ALA	C	528	29.270	129.893	27.939	1.00	81.93	C
ATOM	7349	CB	ALA	C	528	30.618	130.565	27.708	1.00	95.44	C
ATOM	7350	C	ALA	C	528	29.467	128.403	28.185	1.00	81.93	C
ATOM	7351	O	ALA	C	528	29.770	127.647	27.251	1.00	81.93	C
ATOM	7352	N	VAL	C	529	29.309	127.984	29.437	1.00	66.83	C
ATOM	7353	CA	VAL	C	529	29.478	126.577	29.776	1.00	66.83	C
ATOM	7354	CB	VAL	C	529	30.786	126.302	30.535	1.00	100.07	C

ATOM	7355	CG1	VAL	C	529	30.811	124.848	30.985	1.00100.07	C
ATOM	7356	CG2	VAL	C	529	31.989	126.578	29.650	1.00100.07	C
ATOM	7357	C	VAL	C	529	28.375	125.984	30.621	1.00 66.83	C
ATOM	7358	O	VAL	C	529	28.020	126.516	31.673	1.00 66.83	C
ATOM	7359	N	GLU	C	530	27.869	124.851	30.156	1.00100.07	C
ATOM	7360	CA	GLU	C	530	26.824	124.147	30.850	1.00100.07	C
ATOM	7361	CB	GLU	C	530	25.593	124.011	29.960	1.00 94.66	C
ATOM	7362	CG	GLU	C	530	24.485	123.198	30.601	1.00 94.66	C
ATOM	7363	CD	GLU	C	530	24.056	123.758	31.951	1.00 94.66	C
ATOM	7364	OE1	GLU	C	530	24.922	123.987	32.826	1.00 94.66	C
ATOM	7365	OE2	GLU	C	530	22.842	123.966	32.140	1.00 94.66	C
ATOM	7366	C	GLU	C	530	27.294	122.764	31.267	1.00100.07	C
ATOM	7367	O	GLU	C	530	26.890	122.282	32.321	1.00100.07	C
ATOM	7368	N	PHE	C	531	28.138	122.132	30.446	1.00 64.70	C
ATOM	7369	CA	PHE	C	531	28.644	120.780	30.717	1.00 64.70	C
ATOM	7370	CB	PHE	C	531	28.806	120.533	32.213	1.00 98.58	C
ATOM	7371	CG	PHE	C	531	30.204	120.650	32.693	1.00 98.58	C
ATOM	7372	CD1	PHE	C	531	30.876	121.860	32.625	1.00 98.58	C
ATOM	7373	CD2	PHE	C	531	30.845	119.553	33.248	1.00 98.58	C
ATOM	7374	CE1	PHE	C	531	32.169	121.973	33.106	1.00 98.58	C
ATOM	7375	CE2	PHE	C	531	32.128	119.647	33.730	1.00 98.58	C
ATOM	7376	CZ	PHE	C	531	32.794	120.858	33.663	1.00 98.58	C
ATOM	7377	C	PHE	C	531	27.686	119.734	30.165	1.00 64.70	C
ATOM	7378	O	PHE	C	531	26.923	119.120	30.910	1.00 64.70	C
ATOM	7379	N	MET	C	532	27.726	119.542	28.852	1.00 37.81	C
ATOM	7380	CA	MET	C	532	26.874	118.577	28.192	1.00 37.81	C
ATOM	7381	CB	MET	C	532	27.489	118.185	26.858	1.00 90.89	C
ATOM	7382	CG	MET	C	532	26.510	117.504	25.972	1.00 90.89	C
ATOM	7383	SD	MET	C	532	24.970	118.422	26.043	1.00 90.89	C
ATOM	7384	CE	MET	C	532	24.008	117.459	27.253	1.00 90.89	C
ATOM	7385	C	MET	C	532	26.735	117.358	29.082	1.00 37.81	C
ATOM	7386	O	MET	C	532	27.728	116.724	29.408	1.00 37.81	C
ATOM	7387	N	ASP	C	533	25.506	117.066	29.500	1.00 43.33	C
ATOM	7388	CA	ASP	C	533	25.176	115.920	30.356	1.00 43.33	C
ATOM	7389	CB	ASP	C	533	24.084	115.102	29.673	1.00100.07	C
ATOM	7390	CG	ASP	C	533	23.404	114.145	30.613	1.00100.07	C
ATOM	7391	OD1	ASP	C	533	22.954	114.605	31.689	1.00100.07	C
ATOM	7392	OD2	ASP	C	533	23.311	112.942	30.272	1.00100.07	C
ATOM	7393	C	ASP	C	533	26.370	115.020	30.706	1.00 43.33	C
ATOM	7394	O	ASP	C	533	26.489	113.890	30.228	1.00 43.33	C
ATOM	7395	N	VAL	C	534	27.235	115.541	31.568	1.00 25.67	C
ATOM	7396	CA	VAL	C	534	28.456	114.874	32.004	1.00 25.67	C
ATOM	7397	CB	VAL	C	534	29.076	115.609	33.183	1.00100.07	C
ATOM	7398	CG1	VAL	C	534	30.326	114.886	33.644	1.00100.07	C
ATOM	7399	CG2	VAL	C	534	29.381	117.024	32.789	1.00100.07	C
ATOM	7400	C	VAL	C	534	28.352	113.427	32.416	1.00 25.67	C
ATOM	7401	O	VAL	C	534	27.803	113.136	33.484	1.00 25.67	C
ATOM	7402	N	SER	C	535	28.918	112.547	31.583	1.00 30.45	C
ATOM	7403	CA	SER	C	535	28.946	111.100	31.822	1.00 30.45	C
ATOM	7404	CB	SER	C	535	27.842	110.674	32.796	1.00100.07	C
ATOM	7405	OG	SER	C	535	26.559	110.974	32.270	1.00100.07	C
ATOM	7406	C	SER	C	535	28.810	110.267	30.548	1.00 30.45	C
ATOM	7407	O	SER	C	535	27.719	110.145	29.977	1.00 30.45	C
ATOM	7408	N	PRO	C	536	29.919	109.660	30.104	1.00 87.03	C
ATOM	7409	CD	PRO	C	536	29.947	108.621	29.055	1.00100.07	C
ATOM	7410	CA	PRO	C	536	31.223	109.746	30.760	1.00 87.03	C
ATOM	7411	CB	PRO	C	536	31.902	108.452	30.347	1.00100.07	C
ATOM	7412	CG	PRO	C	536	31.440	108.309	28.935	1.00100.07	C
ATOM	7413	C	PRO	C	536	32.028	110.958	30.326	1.00 87.03	C
ATOM	7414	O	PRO	C	536	33.232	111.023	30.602	1.00 87.03	C
ATOM	7415	N	LYS	C	537	31.389	111.901	29.630	1.00 27.01	C
ATOM	7416	CA	LYS	C	537	32.111	113.087	29.219	1.00 27.01	C
ATOM	7417	CB	LYS	C	537	31.162	114.239	28.909	1.00 57.11	C
ATOM	7418	CG	LYS	C	537	31.877	115.472	28.347	1.00 57.11	C
ATOM	7419	CD	LYS	C	537	31.083	116.769	28.515	1.00 57.11	C
ATOM	7420	CE	LYS	C	537	31.019	117.179	29.977	1.00 57.11	C
ATOM	7421	NZ	LYS	C	537	30.491	118.556	30.180	1.00 57.11	C
ATOM	7422	C	LYS	C	537	32.747	113.347	30.543	1.00 27.01	C
ATOM	7423	O	LYS	C	537	32.089	113.120	31.557	1.00 27.01	C
ATOM	7424	N	GLN	C	538	33.998	113.778	30.585	1.00 77.89	C
ATOM	7425	CA	GLN	C	538	34.623	114.035	31.884	1.00 77.89	C
ATOM	7426	CB	GLN	C	538	33.738	114.961	32.738	1.00 99.92	C
ATOM	7427	CG	GLN	C	538	34.161	115.106	34.209	1.00 99.92	C
ATOM	7428	CD	GLN	C	538	34.642	116.512	34.562	1.00 99.92	C
ATOM	7429	OE1	GLN	C	538	33.972	117.506	34.268	1.00 99.92	C
ATOM	7430	NE2	GLN	C	538	35.807	116.598	35.203	1.00 99.92	C
ATOM	7431	C	GLN	C	538	34.910	112.752	32.661	1.00 77.89	C
ATOM	7432	O	GLN	C	538	35.965	112.150	32.473	1.00 77.89	C
ATOM	7433	N	VAL	C	539	33.992	112.324	33.532	1.00 98.72	C
ATOM	7434	CA	VAL	C	539	34.255	111.113	34.305	1.00 98.72	C
ATOM	7435	CB	VAL	C	539	33.118	110.796	35.351	1.00 23.12	C
ATOM	7436	CG1	VAL	C	539	32.004	110.010	34.722	1.00 23.12	C
ATOM	7437	CG2	VAL	C	539	33.698	110.045	36.531	1.00 23.12	C
ATOM	7438	C	VAL	C	539	34.513	109.925	33.369	1.00 98.72	C

ATOM	7439	O	VAL	C	539	33.641	109.456	32.638	1.00	98.72	C
ATOM	7440	N	ALA	C	540	35.774	109.506	33.385	1.00	88.30	C
ATOM	7441	CA	ALA	C	540	36.330	108.398	32.614	1.00	88.30	C
ATOM	7442	CB	ALA	C	540	36.431	107.154	33.516	1.00	100.07	C
ATOM	7443	C	ALA	C	540	35.758	107.993	31.253	1.00	88.30	C
ATOM	7444	O	ALA	C	540	34.873	108.636	30.682	1.00	88.30	C
ATOM	7445	N	SER	C	541	36.316	106.883	30.774	1.00	38.21	C
ATOM	7446	CA	SER	C	541	36.031	106.254	29.492	1.00	38.21	C
ATOM	7447	CB	SER	C	541	36.844	104.962	29.378	1.00	89.88	C
ATOM	7448	OG	SER	C	541	36.477	104.210	28.232	1.00	89.88	C
ATOM	7449	C	SER	C	541	34.609	105.942	29.075	1.00	38.21	C
ATOM	7450	O	SER	C	541	33.662	106.051	29.843	1.00	38.21	C
ATOM	7451	N	LEU	C	542	34.500	105.547	27.812	1.00	99.80	C
ATOM	7452	CA	LEU	C	542	33.240	105.174	27.201	1.00	99.80	C
ATOM	7453	CB	LEU	C	542	33.456	104.793	25.724	1.00	75.91	C
ATOM	7454	CG	LEU	C	542	32.458	103.831	25.052	1.00	75.91	C
ATOM	7455	CD1	LEU	C	542	31.112	104.494	24.846	1.00	75.91	C
ATOM	7456	CD2	LEU	C	542	33.015	103.391	23.722	1.00	75.91	C
ATOM	7457	C	LEU	C	542	32.720	103.974	27.948	1.00	99.80	C
ATOM	7458	O	LEU	C	542	31.526	103.866	28.205	1.00	99.80	C
ATOM	7459	N	ASN	C	543	33.633	103.084	28.320	1.00	45.16	C
ATOM	7460	CA	ASN	C	543	33.232	101.861	28.988	1.00	45.16	C
ATOM	7461	CB	ASN	C	543	33.892	100.665	28.302	1.00	31.59	C
ATOM	7462	CG	ASN	C	543	35.270	100.403	28.814	1.00	31.59	C
ATOM	7463	OD1	ASN	C	543	36.081	101.322	28.923	1.00	31.59	C
ATOM	7464	ND2	ASN	C	543	35.549	99.149	29.146	1.00	31.59	C
ATOM	7465	C	ASN	C	543	33.474	101.796	30.490	1.00	45.16	C
ATOM	7466	O	ASN	C	543	34.131	100.881	30.991	1.00	45.16	C
ATOM	7467	N	THR	C	544	32.912	102.761	31.205	1.00	77.59	C
ATOM	7468	CA	THR	C	544	33.026	102.823	32.652	1.00	77.59	C
ATOM	7469	CB	THR	C	544	34.288	103.652	33.069	1.00	53.19	C
ATOM	7470	OG1	THR	C	544	34.200	104.061	34.438	1.00	53.19	C
ATOM	7471	CG2	THR	C	544	34.452	104.849	32.178	1.00	53.19	C
ATOM	7472	C	THR	C	544	31.717	103.418	33.171	1.00	77.59	C
ATOM	7473	O	THR	C	544	31.579	103.726	34.352	1.00	77.59	C
ATOM	7474	N	ASN	C	545	30.753	103.561	32.260	1.00	46.72	C
ATOM	7475	CA	ASN	C	545	29.419	104.072	32.588	1.00	46.72	C
ATOM	7476	CB	ASN	C	545	28.846	104.912	31.461	1.00	64.40	C
ATOM	7477	CG	ASN	C	545	29.657	106.127	31.191	1.00	64.40	C
ATOM	7478	OD1	ASN	C	545	29.461	107.170	31.812	1.00	64.40	C
ATOM	7479	ND2	ASN	C	545	30.599	106.005	30.267	1.00	64.40	C
ATOM	7480	C	ASN	C	545	28.535	102.857	32.755	1.00	46.72	C
ATOM	7481	O	ASN	C	545	27.357	102.957	33.122	1.00	46.72	C
ATOM	7482	N	LEU	C	546	29.103	101.701	32.441	1.00	51.64	C
ATOM	7483	CA	LEU	C	546	28.359	100.471	32.594	1.00	51.64	C
ATOM	7484	CB	LEU	C	546	29.008	99.333	31.795	1.00	67.44	C
ATOM	7485	CG	LEU	C	546	29.403	99.578	30.331	1.00	67.44	C
ATOM	7486	CD1	LEU	C	546	29.607	98.236	29.664	1.00	67.44	C
ATOM	7487	CD2	LEU	C	546	28.343	100.352	29.585	1.00	67.44	C
ATOM	7488	C	LEU	C	546	28.421	100.200	34.095	1.00	51.64	C
ATOM	7489	O	LEU	C	546	28.235	99.069	34.549	1.00	51.64	C
ATOM	7490	N	ILE	C	547	28.702	101.262	34.852	1.00	46.71	C
ATOM	7491	CA	ILE	C	547	28.782	101.186	36.304	1.00	46.71	C
ATOM	7492	CB	ILE	C	547	30.131	101.669	36.834	1.00	63.78	C
ATOM	7493	CG2	ILE	C	547	30.102	101.656	38.338	1.00	63.78	C
ATOM	7494	CG1	ILE	C	547	31.246	100.738	36.377	1.00	63.78	C
ATOM	7495	CD	ILE	C	547	32.602	101.049	37.001	1.00	63.78	C
ATOM	7496	C	ILE	C	547	27.693	102.032	36.960	1.00	46.71	C
ATOM	7497	O	ILE	C	547	27.864	103.230	37.164	1.00	46.71	C
ATOM	7498	N	PRO	C	548	26.571	101.401	37.330	1.00	86.11	C
ATOM	7499	CD	PRO	C	548	26.375	99.946	37.374	1.00	48.30	C
ATOM	7500	CA	PRO	C	548	25.439	102.062	37.961	1.00	86.11	C
ATOM	7501	CB	PRO	C	548	24.546	100.889	38.354	1.00	48.30	C
ATOM	7502	CG	PRO	C	548	25.505	99.797	38.578	1.00	48.30	C
ATOM	7503	C	PRO	C	548	25.738	102.995	39.123	1.00	86.11	C
ATOM	7504	O	PRO	C	548	24.984	103.939	39.369	1.00	86.11	C
ATOM	7505	N	PHE	C	549	26.812	102.766	39.859	1.00	21.96	C
ATOM	7506	CA	PHE	C	549	27.050	103.692	40.960	1.00	21.96	C
ATOM	7507	CB	PHE	C	549	26.572	103.059	42.275	1.00	66.52	C
ATOM	7508	CG	PHE	C	549	25.065	102.980	42.392	1.00	66.52	C
ATOM	7509	CD1	PHE	C	549	24.322	102.171	41.540	1.00	66.52	C
ATOM	7510	CD2	PHE	C	549	24.386	103.756	43.313	1.00	66.52	C
ATOM	7511	CE1	PHE	C	549	22.926	102.143	41.598	1.00	66.52	C
ATOM	7512	CE2	PHE	C	549	22.992	103.731	43.377	1.00	66.52	C
ATOM	7513	CZ	PHE	C	549	22.265	102.923	42.515	1.00	66.52	C
ATOM	7514	C	PHE	C	549	28.492	104.187	41.041	1.00	21.96	C
ATOM	7515	O	PHE	C	549	29.106	104.276	42.110	1.00	21.96	C
ATOM	7516	N	LEU	C	550	29.022	104.527	39.874	1.00	46.97	C
ATOM	7517	CA	LEU	C	550	30.382	105.016	39.775	1.00	46.97	C
ATOM	7518	CB	LEU	C	550	30.617	105.644	38.396	1.00	31.66	C
ATOM	7519	CG	LEU	C	550	32.022	106.137	38.042	1.00	31.66	C
ATOM	7520	CD1	LEU	C	550	33.081	105.267	38.708	1.00	31.66	C
ATOM	7521	CD2	LEU	C	550	32.183	106.139	36.520	1.00	31.66	C
ATOM	7522	C	LEU	C	550	30.553	106.030	40.873	1.00	46.97	C

ATOM	7523	O	LEU	C	550	31.656	106.263	41.346	1.00	46.97	C
ATOM	7524	N	GLU	C	551	29.436	106.618	41.283	1.00	44.84	C
ATOM	7525	CA	GLU	C	551	29.442	107.598	42.349	1.00	44.84	C
ATOM	7526	CB	GLU	C	551	28.027	108.102	42.594	1.00	99.26	C
ATOM	7527	CG	GLU	C	551	27.216	108.214	41.331	1.00	99.26	C
ATOM	7528	CD	GLU	C	551	26.115	109.231	41.453	1.00	99.26	C
ATOM	7529	OE1	GLU	C	551	26.442	110.419	41.654	1.00	99.26	C
ATOM	7530	OE2	GLU	C	551	24.929	108.850	41.347	1.00	99.26	C
ATOM	7531	C	GLU	C	551	29.975	106.890	43.591	1.00	44.84	C
ATOM	7532	O	GLU	C	551	31.178	106.866	43.827	1.00	44.84	C
ATOM	7533	N	HIS	C	552	29.078	106.308	44.377	1.00	62.12	C
ATOM	7534	CA	HIS	C	552	29.467	105.580	45.581	1.00	62.12	C
ATOM	7535	CB	HIS	C	552	28.235	104.955	46.218	1.00	38.24	C
ATOM	7536	CG	HIS	C	552	27.002	105.779	46.059	1.00	38.24	C
ATOM	7537	CD2	HIS	C	552	26.139	105.892	45.024	1.00	38.24	C
ATOM	7538	ND1	HIS	C	552	26.555	106.648	47.030	1.00	38.24	C
ATOM	7539	CE1	HIS	C	552	25.467	107.258	46.599	1.00	38.24	C
ATOM	7540	NE2	HIS	C	552	25.194	106.818	45.384	1.00	38.24	C
ATOM	7541	C	HIS	C	552	30.412	104.472	45.144	1.00	62.12	C
ATOM	7542	O	HIS	C	552	30.109	103.293	45.282	1.00	62.12	C
ATOM	7543	N	ASP	C	553	31.563	104.852	44.620	1.00	74.17	C
ATOM	7544	CA	ASP	C	553	32.513	103.881	44.131	1.00	74.17	C
ATOM	7545	CB	ASP	C	553	31.994	103.313	42.802	1.00	24.87	C
ATOM	7546	CG	ASP	C	553	31.498	101.878	42.926	1.00	24.87	C
ATOM	7547	OD1	ASP	C	553	31.012	101.481	44.008	1.00	24.87	C
ATOM	7548	OD2	ASP	C	553	31.596	101.146	41.925	1.00	24.87	C
ATOM	7549	C	ASP	C	553	33.859	104.577	43.958	1.00	74.17	C
ATOM	7550	O	ASP	C	553	34.060	105.377	43.038	1.00	74.17	C
ATOM	7551	N	ASP	C	554	34.776	104.272	44.868	1.00	18.17	C
ATOM	7552	CA	ASP	C	554	36.111	104.856	44.854	1.00	18.17	C
ATOM	7553	CB	ASP	C	554	36.932	104.285	46.013	1.00	45.40	C
ATOM	7554	CG	ASP	C	554	38.371	104.734	45.975	1.00	45.40	C
ATOM	7555	OD1	ASP	C	554	39.035	104.475	44.955	1.00	45.40	C
ATOM	7556	OD2	ASP	C	554	38.847	105.342	46.954	1.00	45.40	C
ATOM	7557	C	ASP	C	554	36.845	104.614	43.539	1.00	18.17	C
ATOM	7558	O	ASP	C	554	37.094	103.472	43.173	1.00	18.17	C
ATOM	7559	N	ALA	C	555	37.203	105.691	42.846	1.00	34.34	C
ATOM	7560	CA	ALA	C	555	37.926	105.597	41.580	1.00	34.34	C
ATOM	7561	CB	ALA	C	555	38.827	106.789	41.404	1.00	19.00	C
ATOM	7562	C	ALA	C	555	38.755	104.335	41.517	1.00	34.34	C
ATOM	7563	O	ALA	C	555	38.446	103.425	40.758	1.00	34.34	C
ATOM	7564	N	ASN	C	556	39.810	104.284	42.319	1.00	29.63	C
ATOM	7565	CA	ASN	C	556	40.681	103.116	42.356	1.00	29.63	C
ATOM	7566	CB	ASN	C	556	41.334	103.000	43.732	1.00	71.66	C
ATOM	7567	CG	ASN	C	556	42.832	102.801	43.643	1.00	71.66	C
ATOM	7568	OD1	ASN	C	556	43.301	101.768	43.169	1.00	71.66	C
ATOM	7569	ND2	ASN	C	556	43.594	103.797	44.090	1.00	71.66	C
ATOM	7570	C	ASN	C	556	39.969	101.798	41.993	1.00	29.63	C
ATOM	7571	O	ASN	C	556	40.089	101.325	40.855	1.00	29.63	C
ATOM	7572	N	ALA	C	557	39.232	101.201	42.934	1.00	54.73	C
ATOM	7573	CA	ALA	C	557	38.533	99.947	42.630	1.00	54.73	C
ATOM	7574	CB	ALA	C	557	37.690	99.458	43.844	1.00	5.07	C
ATOM	7575	C	ALA	C	557	37.644	100.141	41.394	1.00	54.73	C
ATOM	7576	O	ALA	C	557	37.436	99.214	40.612	1.00	54.73	C
ATOM	7577	N	ALA	C	558	37.137	101.352	41.202	1.00	39.66	C
ATOM	7578	CA	ALA	C	558	36.294	101.610	40.048	1.00	39.66	C
ATOM	7579	CB	ALA	C	558	35.826	103.058	40.029	1.00	39.20	C
ATOM	7580	C	ALA	C	558	37.071	101.296	38.782	1.00	39.66	C
ATOM	7581	O	ALA	C	558	36.537	100.660	37.870	1.00	39.66	C
ATOM	7582	N	LEU	C	559	38.330	101.731	38.716	1.00	11.82	C
ATOM	7583	CA	LEU	C	559	39.141	101.469	37.524	1.00	11.82	C
ATOM	7584	CB	LEU	C	559	40.577	101.995	37.696	1.00	16.16	C
ATOM	7585	CG	LEU	C	559	41.761	101.011	37.705	1.00	16.16	C
ATOM	7586	CD1	LEU	C	559	41.950	100.452	36.320	1.00	16.16	C
ATOM	7587	CD2	LEU	C	559	43.045	101.689	38.123	1.00	16.16	C
ATOM	7588	C	LEU	C	559	39.161	99.967	37.376	1.00	11.82	C
ATOM	7589	O	LEU	C	559	38.990	99.435	36.279	1.00	11.82	C
ATOM	7590	N	MET	C	560	39.339	99.300	38.515	1.00	13.81	C
ATOM	7591	CA	MET	C	560	39.414	97.849	38.594	1.00	13.81	C
ATOM	7592	CB	MET	C	560	39.743	97.442	40.014	1.00	42.89	C
ATOM	7593	CG	MET	C	560	40.569	96.205	40.106	1.00	42.89	C
ATOM	7594	SD	MET	C	560	41.238	96.047	41.758	1.00	42.89	C
ATOM	7595	CE	MET	C	560	42.037	97.722	41.973	1.00	42.89	C
ATOM	7596	C	MET	C	560	38.138	97.153	38.157	1.00	13.81	C
ATOM	7597	O	MET	C	560	38.024	95.935	38.275	1.00	13.81	C
ATOM	7598	N	GLY	C	561	37.181	97.940	37.668	1.00	10.47	C
ATOM	7599	CA	GLY	C	561	35.912	97.418	37.187	1.00	10.47	C
ATOM	7600	C	GLY	C	561	35.818	97.899	35.759	1.00	10.47	C
ATOM	7601	O	GLY	C	561	35.297	97.218	34.883	1.00	10.47	C
ATOM	7602	N	SER	C	562	36.340	99.090	35.516	1.00	24.81	C
ATOM	7603	CA	SER	C	562	36.330	99.619	34.167	1.00	24.81	C
ATOM	7604	CB	SER	C	562	36.930	101.022	34.142	1.00	62.72	C
ATOM	7605	OG	SER	C	562	35.974	101.982	34.558	1.00	62.72	C
ATOM	7606	C	SER	C	562	37.109	98.693	33.222	1.00	24.81	C

ATOM	7607	O	SER	C	562	36.697	98.465	32.083	1.00	24.81	C
ATOM	7608	N	ASN	C	563	38.239	98.168	33.688	1.00	10.93	C
ATOM	7609	CA	ASN	C	563	39.037	97.259	32.864	1.00	10.93	C
ATOM	7610	CB	ASN	C	563	40.478	97.127	33.390	1.00	27.67	C
ATOM	7611	CG	ASN	C	563	41.293	98.406	33.230	1.00	27.67	C
ATOM	7612	OD1	ASN	C	563	42.277	98.627	33.944	1.00	27.67	C
ATOM	7613	ND2	ASN	C	563	40.898	99.244	32.286	1.00	27.67	C
ATOM	7614	C	ASN	C	563	38.327	95.947	33.042	1.00	10.93	C
ATOM	7615	O	ASN	C	563	37.815	95.361	32.103	1.00	10.93	C
ATOM	7616	N	MET	C	564	38.277	95.526	34.292	1.00	15.33	C
ATOM	7617	CA	MET	C	564	37.652	94.282	34.680	1.00	15.33	C
ATOM	7618	CB	MET	C	564	36.993	94.463	36.043	1.00	33.53	C
ATOM	7619	CG	MET	C	564	36.804	93.175	36.812	1.00	33.53	C
ATOM	7620	SD	MET	C	564	38.294	92.697	37.662	1.00	33.53	C
ATOM	7621	CE	MET	C	564	39.226	92.028	36.304	1.00	33.53	C
ATOM	7622	C	MET	C	564	36.632	93.741	33.665	1.00	15.33	C
ATOM	7623	O	MET	C	564	36.609	92.541	33.397	1.00	15.33	C
ATOM	7624	N	GLN	C	565	35.793	94.613	33.108	1.00	39.06	C
ATOM	7625	CA	GLN	C	565	34.793	94.184	32.131	1.00	39.06	C
ATOM	7626	CB	GLN	C	565	33.836	95.322	31.797	1.00	43.60	C
ATOM	7627	CG	GLN	C	565	32.579	95.396	32.619	1.00	43.60	C
ATOM	7628	CD	GLN	C	565	31.681	96.528	32.142	1.00	43.60	C
ATOM	7629	OE1	GLN	C	565	32.043	97.702	32.249	1.00	43.60	C
ATOM	7630	NE2	GLN	C	565	30.513	96.181	31.602	1.00	43.60	C
ATOM	7631	C	GLN	C	565	35.376	93.669	30.812	1.00	39.06	C
ATOM	7632	O	GLN	C	565	35.095	92.535	30.425	1.00	39.06	C
ATOM	7633	N	THR	C	566	36.168	94.503	30.128	1.00	12.13	C
ATOM	7634	CA	THR	C	566	36.761	94.137	28.833	1.00	12.13	C
ATOM	7635	CB	THR	C	566	38.150	94.755	28.583	1.00	7.27	C
ATOM	7636	OG1	THR	C	566	38.058	96.180	28.557	1.00	7.27	C
ATOM	7637	CG2	THR	C	566	38.673	94.306	27.241	1.00	7.27	C
ATOM	7638	C	THR	C	566	36.959	92.655	28.700	1.00	12.13	C
ATOM	7639	O	THR	C	566	36.752	92.099	27.627	1.00	12.13	C
ATOM	7640	N	GLN	C	567	37.374	92.033	29.803	1.00	17.53	C
ATOM	7641	CA	GLN	C	567	37.634	90.601	29.861	1.00	17.53	C
ATOM	7642	CB	GLN	C	567	38.664	90.340	30.968	1.00	67.31	C
ATOM	7643	CG	GLN	C	567	39.641	91.526	31.163	1.00	67.31	C
ATOM	7644	CD	GLN	C	567	40.991	91.138	31.769	1.00	67.31	C
ATOM	7645	OE1	GLN	C	567	41.734	90.337	31.195	1.00	67.31	C
ATOM	7646	NE2	GLN	C	567	41.317	91.715	32.923	1.00	67.31	C
ATOM	7647	C	GLN	C	567	36.328	89.845	30.110	1.00	17.53	C
ATOM	7648	O	GLN	C	567	36.272	88.900	30.885	1.00	17.53	C
ATOM	7649	N	ALA	C	568	35.286	90.282	29.418	1.00	24.15	C
ATOM	7650	CA	ALA	C	568	33.954	89.712	29.517	1.00	24.15	C
ATOM	7651	CB	ALA	C	568	33.059	90.322	28.462	1.00	67.54	C
ATOM	7652	C	ALA	C	568	33.887	88.205	29.411	1.00	24.15	C
ATOM	7653	O	ALA	C	568	33.919	87.526	30.424	1.00	24.15	C
ATOM	7654	N	VAL	C	569	33.770	87.700	28.182	1.00	12.59	C
ATOM	7655	CA	VAL	C	569	33.661	86.261	27.868	1.00	12.59	C
ATOM	7656	CB	VAL	C	569	34.095	85.348	29.017	1.00	21.13	C
ATOM	7657	CG1	VAL	C	569	33.927	83.908	28.615	1.00	21.13	C
ATOM	7658	CG2	VAL	C	569	35.520	85.602	29.362	1.00	21.13	C
ATOM	7659	C	VAL	C	569	32.219	85.900	27.553	1.00	12.59	C
ATOM	7660	O	VAL	C	569	31.514	85.362	28.396	1.00	12.59	C
ATOM	7661	N	PRO	C	570	31.769	86.176	26.321	1.00	35.39	C
ATOM	7662	CD	PRO	C	570	32.588	86.473	25.137	1.00	74.38	C
ATOM	7663	CA	PRO	C	570	30.397	85.874	25.924	1.00	35.39	C
ATOM	7664	CB	PRO	C	570	30.456	85.939	24.397	1.00	74.38	C
ATOM	7665	CG	PRO	C	570	31.890	85.670	24.083	1.00	74.38	C
ATOM	7666	C	PRO	C	570	29.906	84.539	26.443	1.00	35.39	C
ATOM	7667	O	PRO	C	570	30.664	83.568	26.495	1.00	35.39	C
ATOM	7668	N	LEU	C	571	28.630	84.518	26.831	1.00	33.95	C
ATOM	7669	CA	LEU	C	571	27.971	83.330	27.372	1.00	33.95	C
ATOM	7670	CB	LEU	C	571	27.508	83.600	28.816	1.00	10.32	C
ATOM	7671	CG	LEU	C	571	28.562	83.994	29.866	1.00	10.32	C
ATOM	7672	CD1	LEU	C	571	29.173	85.305	29.463	1.00	10.32	C
ATOM	7673	CD2	LEU	C	571	27.950	84.129	31.252	1.00	10.32	C
ATOM	7674	C	LEU	C	571	26.768	82.909	26.512	1.00	33.95	C
ATOM	7675	O	LEU	C	571	26.221	83.718	25.761	1.00	33.95	C
ATOM	7676	N	ILE	C	572	26.384	81.636	26.629	1.00	47.12	C
ATOM	7677	CA	ILE	C	572	25.251	81.056	25.901	1.00	47.12	C
ATOM	7678	CB	ILE	C	572	24.997	79.581	26.317	1.00	48.48	C
ATOM	7679	CG2	ILE	C	572	25.477	78.643	25.246	1.00	48.48	C
ATOM	7680	CG1	ILE	C	572	25.719	79.268	27.626	1.00	48.48	C
ATOM	7681	CD	ILE	C	572	25.270	80.112	28.819	1.00	48.48	C
ATOM	7682	C	ILE	C	572	23.972	81.829	26.182	1.00	47.12	C
ATOM	7683	O	ILE	C	572	23.140	82.039	25.299	1.00	47.12	C
ATOM	7684	N	ARG	C	573	23.825	82.246	27.431	1.00	32.55	C
ATOM	7685	CA	ARG	C	573	22.656	82.991	27.866	1.00	32.55	C
ATOM	7686	CB	ARG	C	573	21.923	82.192	28.929	1.00	40.55	C
ATOM	7687	CG	ARG	C	573	22.003	80.690	28.738	1.00	40.55	C
ATOM	7688	CD	ARG	C	573	21.791	79.987	30.064	1.00	40.55	C
ATOM	7689	NE	ARG	C	573	20.407	79.593	30.339	1.00	40.55	C
ATOM	7690	CZ	ARG	C	573	19.327	80.363	30.189	1.00	40.55	C

ATOM	7691	NH1	ARG	C	573	19.417	81.615	29.748	1.00	40.55	C
ATOM	7692	NH2	ARG	C	573	18.138	79.866	30.503	1.00	40.55	C
ATOM	7693	C	ARG	C	573	23.145	84.294	28.468	1.00	32.55	C
ATOM	7694	O	ARG	C	573	22.933	84.551	29.658	1.00	32.55	C
ATOM	7695	N	ALA	C	574	23.815	85.110	27.657	1.00	30.93	C
ATOM	7696	CA	ALA	C	574	24.322	86.384	28.155	1.00	30.93	C
ATOM	7697	CB	ALA	C	574	24.866	87.214	27.023	1.00	67.20	C
ATOM	7698	C	ALA	C	574	23.147	87.080	28.812	1.00	30.93	C
ATOM	7699	O	ALA	C	574	22.037	86.559	28.793	1.00	30.93	C
ATOM	7700	N	GLN	C	575	23.366	88.243	29.399	1.00	34.78	C
ATOM	7701	CA	GLN	C	575	22.261	88.942	30.037	1.00	34.78	C
ATOM	7702	CB	GLN	C	575	21.855	88.261	31.358	1.00	54.90	C
ATOM	7703	CG	GLN	C	575	21.124	86.920	31.217	1.00	54.90	C
ATOM	7704	CD	GLN	C	575	20.546	86.406	32.531	1.00	54.90	C
ATOM	7705	OE1	GLN	C	575	21.250	86.299	33.532	1.00	54.90	C
ATOM	7706	NE2	GLN	C	575	19.257	86.079	32.526	1.00	54.90	C
ATOM	7707	C	GLN	C	575	22.618	90.389	30.310	1.00	34.78	C
ATOM	7708	O	GLN	C	575	23.762	90.713	30.634	1.00	34.78	C
ATOM	7709	N	ALA	C	576	21.638	91.265	30.148	1.00	16.83	C
ATOM	7710	CA	ALA	C	576	21.867	92.660	30.403	1.00	16.83	C
ATOM	7711	CB	ALA	C	576	20.782	93.492	29.776	1.00	86.29	C
ATOM	7712	C	ALA	C	576	21.800	92.751	31.908	1.00	16.83	C
ATOM	7713	O	ALA	C	576	21.265	91.850	32.560	1.00	16.83	C
ATOM	7714	N	PRO	C	577	22.385	93.810	32.487	1.00	73.42	C
ATOM	7715	CD	PRO	C	577	23.386	94.675	31.841	1.00	80.42	C
ATOM	7716	CA	PRO	C	577	22.383	94.023	33.937	1.00	73.42	C
ATOM	7717	CB	PRO	C	577	23.661	94.822	34.165	1.00	80.42	C
ATOM	7718	CG	PRO	C	577	23.743	95.646	32.949	1.00	80.42	C
ATOM	7719	C	PRO	C	577	21.119	94.796	34.336	1.00	73.42	C
ATOM	7720	O	PRO	C	577	20.716	95.731	33.642	1.00	73.42	C
ATOM	7721	N	VAL	C	578	20.500	94.383	35.444	1.00	99.09	C
ATOM	7722	CA	VAL	C	578	19.272	95.004	35.945	1.00	99.09	C
ATOM	7723	CB	VAL	C	578	18.863	94.421	37.317	1.00	100.07	C
ATOM	7724	CG1	VAL	C	578	17.598	95.097	37.813	1.00	100.07	C
ATOM	7725	CG2	VAL	C	578	18.625	92.925	37.202	1.00	100.07	C
ATOM	7726	C	VAL	C	578	19.426	96.511	36.078	1.00	99.09	C
ATOM	7727	O	VAL	C	578	18.650	97.284	35.521	1.00	99.09	C
ATOM	7728	N	VAL	C	579	20.415	96.927	36.839	1.00	45.44	C
ATOM	7729	CA	VAL	C	579	20.688	98.339	36.987	1.00	45.44	C
ATOM	7730	CB	VAL	C	579	21.447	98.569	38.277	1.00	100.07	C
ATOM	7731	CG1	VAL	C	579	21.223	99.976	38.774	1.00	100.07	C
ATOM	7732	CG2	VAL	C	579	21.039	97.541	39.303	1.00	100.07	C
ATOM	7733	C	VAL	C	579	21.647	98.529	35.816	1.00	45.44	C
ATOM	7734	O	VAL	C	579	22.797	98.136	35.952	1.00	45.44	C
ATOM	7735	N	MET	C	580	21.230	99.110	34.688	1.00	79.50	C
ATOM	7736	CA	MET	C	580	22.168	99.142	33.569	1.00	79.50	C
ATOM	7737	CB	MET	C	580	21.563	98.394	32.373	1.00	100.07	C
ATOM	7738	CG	MET	C	580	20.210	98.889	31.904	1.00	82.47	C
ATOM	7739	SD	MET	C	580	19.895	98.194	30.273	1.00	82.47	C
ATOM	7740	CE	MET	C	580	20.423	99.579	29.251	1.00	82.47	C
ATOM	7741	C	MET	C	580	22.916	100.362	33.033	1.00	79.50	C
ATOM	7742	O	MET	C	580	24.029	100.216	32.529	1.00	79.50	C
ATOM	7743	N	ILE	C	581	22.334	101.560	33.120	1.00	65.73	C
ATOM	7744	CA	ILE	C	581	22.975	102.787	32.630	1.00	65.73	C
ATOM	7745	CB	ILE	C	581	24.498	102.859	32.951	1.00	100.07	C
ATOM	7746	CG2	ILE	C	581	24.958	104.302	32.849	1.00	100.07	C
ATOM	7747	CG1	ILE	C	581	24.806	102.273	34.341	1.00	100.07	C
ATOM	7748	CD	ILE	C	581	23.853	102.712	35.427	1.00	100.07	C
ATOM	7749	C	ILE	C	581	22.857	103.009	31.142	1.00	65.73	C
ATOM	7750	O	ILE	C	581	23.857	103.118	30.468	1.00	65.73	C
ATOM	7751	N	GLY	C	582	21.641	103.082	30.602	1.00	92.71	C
ATOM	7752	CA	GLY	C	582	21.451	103.312	29.180	1.00	92.71	C
ATOM	7753	C	GLY	C	582	22.516	102.818	28.210	1.00	92.71	C
ATOM	7754	O	GLY	C	582	22.376	101.748	27.644	1.00	92.71	C
ATOM	7755	N	LEU	C	583	23.556	103.625	28.010	1.00	60.27	C
ATOM	7756	CA	LEU	C	583	24.672	103.311	27.119	1.00	60.27	C
ATOM	7757	CB	LEU	C	583	25.998	103.553	27.834	1.00	91.16	C
ATOM	7758	CG	LEU	C	583	26.573	104.961	27.793	1.00	96.91	C
ATOM	7759	CD1	LEU	C	583	27.928	104.981	28.460	1.00	96.91	C
ATOM	7760	CD2	LEU	C	583	26.700	105.404	26.357	1.00	96.91	C
ATOM	7761	C	LEU	C	583	24.665	101.890	26.585	1.00	60.27	C
ATOM	7762	O	LEU	C	583	24.815	101.667	25.379	1.00	60.27	C
ATOM	7763	N	GLU	C	584	24.510	100.934	27.497	1.00	51.86	C
ATOM	7764	CA	GLU	C	584	24.494	99.514	27.168	1.00	51.86	C
ATOM	7765	CB	GLU	C	584	23.645	98.795	28.190	1.00	93.84	C
ATOM	7766	CG	GLU	C	584	23.700	99.453	29.542	1.00	99.59	C
ATOM	7767	CD	GLU	C	584	24.354	98.573	30.557	1.00	99.59	C
ATOM	7768	OE1	GLU	C	584	23.760	97.536	30.868	1.00	99.59	C
ATOM	7769	OE2	GLU	C	584	25.456	98.897	31.046	1.00	99.59	C
ATOM	7770	C	GLU	C	584	23.927	99.282	25.779	1.00	51.86	C
ATOM	7771	O	GLU	C	584	24.264	98.297	25.122	1.00	51.86	C
ATOM	7772	N	GLU	C	585	23.075	100.208	25.341	1.00	60.51	C
ATOM	7773	CA	GLU	C	585	22.408	100.139	24.045	1.00	60.51	C
ATOM	7774	CB	GLU	C	585	21.237	101.123	24.007	1.00	100.07	C

ATOM	7775	CG	GLU	C	585	20.166	100.866	25.071	1.00100.07	C
ATOM	7776	CD	GLU	C	585	18.936	101.773	24.936	1.00100.07	C
ATOM	7777	OE1	GLU	C	585	18.381	101.880	23.820	1.00100.07	C
ATOM	7778	OE2	GLU	C	585	18.513	102.370	25.952	1.00100.07	C
ATOM	7779	C	GLU	C	585	23.306	100.415	22.858	1.00 60.51	C
ATOM	7780	O	GLU	C	585	23.404	99.581	21.968	1.00 60.51	C
ATOM	7781	N	ARG	C	586	23.944	101.588	22.850	1.00 61.97	C
ATOM	7782	CA	ARG	C	586	24.821	102.019	21.758	1.00 61.97	C
ATOM	7783	CB	ARG	C	586	25.092	103.525	21.871	1.00 98.61	C
ATOM	7784	CG	ARG	C	586	25.195	104.259	20.543	1.00100.07	C
ATOM	7785	CD	ARG	C	586	24.884	105.725	20.715	1.00100.07	C
ATOM	7786	NE	ARG	C	586	23.925	106.189	19.717	1.00100.07	C
ATOM	7787	CZ	ARG	C	586	22.909	107.013	19.973	1.00100.07	C
ATOM	7788	NH1	ARG	C	586	22.710	107.467	21.206	1.00100.07	C
ATOM	7789	NH2	ARG	C	586	22.098	107.395	18.992	1.00100.07	C
ATOM	7790	C	ARG	C	586	26.149	101.266	21.660	1.00 61.97	C
ATOM	7791	O	ARG	C	586	26.610	100.981	20.556	1.00 61.97	C
ATOM	7792	N	VAL	C	587	26.760	100.943	22.801	1.00 51.35	C
ATOM	7793	CA	VAL	C	587	28.048	100.239	22.802	1.00 51.35	C
ATOM	7794	CB	VAL	C	587	28.440	99.735	24.201	1.00 47.36	C
ATOM	7795	CG1	VAL	C	587	29.595	98.751	24.098	1.00 53.11	C
ATOM	7796	CG2	VAL	C	587	28.850	100.916	25.073	1.00 53.11	C
ATOM	7797	C	VAL	C	587	28.085	99.062	21.854	1.00 51.35	C
ATOM	7798	O	VAL	C	587	29.153	98.711	21.370	1.00 51.35	C
ATOM	7799	N	VAL	C	588	26.928	98.456	21.587	1.00 37.60	C
ATOM	7800	CA	VAL	C	588	26.854	97.322	20.667	1.00 37.60	C
ATOM	7801	CB	VAL	C	588	25.792	96.316	21.070	1.00 36.67	C
ATOM	7802	CG1	VAL	C	588	25.879	95.115	20.167	1.00 42.42	C
ATOM	7803	CG2	VAL	C	588	25.971	95.915	22.504	1.00 42.42	C
ATOM	7804	C	VAL	C	588	26.451	97.822	19.298	1.00 37.60	C
ATOM	7805	O	VAL	C	588	27.110	97.555	18.295	1.00 37.60	C
ATOM	7806	N	ARG	C	589	25.349	98.555	19.273	1.00 38.69	C
ATOM	7807	CA	ARG	C	589	24.824	99.103	18.037	1.00 38.69	C
ATOM	7808	CB	ARG	C	589	23.519	99.846	18.344	1.00100.07	C
ATOM	7809	CG	ARG	C	589	22.627	98.988	19.247	1.00100.07	C
ATOM	7810	CD	ARG	C	589	21.220	99.517	19.492	1.00100.07	C
ATOM	7811	NE	ARG	C	589	20.448	98.541	20.269	1.00100.07	C
ATOM	7812	CZ	ARG	C	589	19.127	98.572	20.425	1.00100.07	C
ATOM	7813	NH1	ARG	C	589	18.410	99.534	19.860	1.00100.07	C
ATOM	7814	NH2	ARG	C	589	18.519	97.630	21.134	1.00100.07	C
ATOM	7815	C	ARG	C	589	25.862	99.998	17.392	1.00 38.69	C
ATOM	7816	O	ARG	C	589	25.555	100.815	16.531	1.00 38.69	C
ATOM	7817	N	ASP	C	590	27.101	99.821	17.830	1.00 31.50	C
ATOM	7818	CA	ASP	C	590	28.244	100.564	17.330	1.00 31.50	C
ATOM	7819	CB	ASP	C	590	28.617	101.708	18.283	1.00100.07	C
ATOM	7820	CG	ASP	C	590	27.563	102.801	18.338	1.00 99.80	C
ATOM	7821	OD1	ASP	C	590	27.195	103.343	17.275	1.00 99.80	C
ATOM	7822	OD2	ASP	C	590	27.116	103.129	19.455	1.00 99.80	C
ATOM	7823	C	ASP	C	590	29.417	99.587	17.221	1.00 31.50	C
ATOM	7824	O	ASP	C	590	30.320	99.764	16.399	1.00 31.50	C
ATOM	7825	N	SER	C	591	29.402	98.556	18.061	1.00 51.99	C
ATOM	7826	CA	SER	C	591	30.453	97.541	18.050	1.00 51.99	C
ATOM	7827	CB	SER	C	591	30.404	96.698	19.321	1.00100.07	C
ATOM	7828	OG	SER	C	591	29.322	95.776	19.273	1.00 80.96	C
ATOM	7829	C	SER	C	591	30.156	96.635	16.879	1.00 51.99	C
ATOM	7830	O	SER	C	591	30.402	95.439	16.950	1.00 51.99	C
ATOM	7831	N	LEU	C	592	29.613	97.224	15.817	1.00 23.57	C
ATOM	7832	CA	LEU	C	592	29.214	96.516	14.599	1.00 23.57	C
ATOM	7833	CB	LEU	C	592	30.106	96.919	13.421	1.00 93.77	C
ATOM	7834	CG	LEU	C	592	30.020	98.360	12.917	1.00 99.52	C
ATOM	7835	CD1	LEU	C	592	30.845	98.502	11.649	1.00 99.52	C
ATOM	7836	CD2	LEU	C	592	28.571	98.717	12.639	1.00 99.52	C
ATOM	7837	C	LEU	C	592	29.248	95.014	14.748	1.00 23.57	C
ATOM	7838	O	LEU	C	592	29.919	94.354	13.969	1.00 23.57	C
ATOM	7839	N	ALA	C	593	28.547	94.470	15.740	1.00 47.38	C
ATOM	7840	CA	ALA	C	593	28.548	93.025	15.956	1.00 47.38	C
ATOM	7841	CB	ALA	C	593	29.304	92.672	17.243	1.00 5.07	C
ATOM	7842	C	ALA	C	593	27.126	92.514	16.026	1.00 47.38	C
ATOM	7843	O	ALA	C	593	26.823	91.538	16.714	1.00 47.38	C
ATOM	7844	N	ALA	C	594	26.249	93.188	15.302	1.00 31.85	C
ATOM	7845	CA	ALA	C	594	24.850	92.807	15.276	1.00 31.85	C
ATOM	7846	CB	ALA	C	594	24.105	93.525	16.391	1.00 24.88	C
ATOM	7847	C	ALA	C	594	24.310	93.198	13.903	1.00 31.85	C
ATOM	7848	O	ALA	C	594	24.983	93.913	13.161	1.00 31.85	C
ATOM	7849	N	LEU	C	595	23.112	92.737	13.557	1.00 69.24	C
ATOM	7850	CA	LEU	C	595	22.553	93.042	12.247	1.00 69.24	C
ATOM	7851	CB	LEU	C	595	21.615	91.919	11.809	1.00100.07	C
ATOM	7852	CG	LEU	C	595	22.337	90.891	10.931	1.00 94.58	C
ATOM	7853	CD1	LEU	C	595	21.598	89.561	10.892	1.00 94.58	C
ATOM	7854	CD2	LEU	C	595	22.481	91.476	9.544	1.00 94.58	C
ATOM	7855	C	LEU	C	595	21.873	94.399	12.102	1.00 69.24	C
ATOM	7856	O	LEU	C	595	22.364	95.254	11.372	1.00 69.24	C
ATOM	7857	N	TYR	C	596	20.749	94.609	12.775	1.00100.07	C
ATOM	7858	CA	TYR	C	596	20.058	95.897	12.679	1.00100.07	C

ATOM	7943	N	ALA	C	611	16.851	86.081	6.660	1.00100.07	C
ATOM	7944	CA	ALA	C	611	16.009	86.707	5.636	1.00100.07	C
ATOM	7945	CB	ALA	C	611	14.871	87.498	6.311	1.00 39.23	C
ATOM	7946	C	ALA	C	611	16.626	87.588	4.565	1.00100.07	C
ATOM	7947	O	ALA	C	611	17.848	87.598	4.307	1.00100.07	C
ATOM	7948	N	ALA	C	612	15.733	88.331	3.928	1.00 99.99	C
ATOM	7949	CA	ALA	C	612	16.043	89.241	2.848	1.00 99.99	C
ATOM	7950	CB	ALA	C	612	15.416	88.711	1.572	1.00 59.80	C
ATOM	7951	C	ALA	C	612	15.451	90.595	3.225	1.00 99.99	C
ATOM	7952	O	ALA	C	612	15.919	91.649	2.780	1.00 99.99	C
ATOM	7953	N	ALA	C	613	14.446	90.562	4.102	1.00 84.37	C
ATOM	7954	CA	ALA	C	613	13.773	91.778	4.533	1.00 84.37	C
ATOM	7955	CB	ALA	C	613	14.670	92.551	5.454	1.00 97.27	C
ATOM	7956	C	ALA	C	613	13.474	92.580	3.265	1.00 84.37	C
ATOM	7957	O	ALA	C	613	14.145	93.557	2.948	1.00 84.37	C
ATOM	7958	N	ALA	C	614	12.463	92.131	2.536	1.00 99.71	C
ATOM	7959	CA	ALA	C	614	12.070	92.753	1.283	1.00 99.71	C
ATOM	7960	CB	ALA	C	614	11.047	91.865	0.572	1.00 98.58	C
ATOM	7961	C	ALA	C	614	11.504	94.160	1.499	1.00 99.71	C
ATOM	7962	O	ALA	C	614	10.311	94.409	1.300	1.00 99.71	C
ATOM	7963	N	ALA	C	615	12.374	95.086	1.896	1.00100.07	C
ATOM	7964	CA	ALA	C	615	11.987	96.473	2.153	1.00100.07	C
ATOM	7965	CB	ALA	C	615	13.136	97.195	2.835	1.00 80.06	C
ATOM	7966	C	ALA	C	615	11.587	97.193	0.875	1.00100.07	C
ATOM	7967	O	ALA	C	615	10.970	96.598	-0.016	1.00100.07	C
ATOM	7968	N	ALA	C	616	11.929	98.479	0.813	1.00100.07	C
ATOM	7969	CA	ALA	C	616	11.643	99.332	-0.349	1.00100.07	C
ATOM	7970	CB	ALA	C	616	11.801	100.814	0.017	1.00100.07	C
ATOM	7971	C	ALA	C	616	12.614	98.970	-1.465	1.00100.07	C
ATOM	7972	O	ALA	C	616	12.761	99.695	-2.447	1.00100.07	C
ATOM	7973	N	ALA	C	617	13.293	97.845	-1.278	1.00100.07	C
ATOM	7974	CA	ALA	C	617	14.248	97.335	-2.254	1.00100.07	C
ATOM	7975	CB	ALA	C	617	15.671	97.762	-1.890	1.00100.07	C
ATOM	7976	C	ALA	C	617	14.132	95.823	-2.244	1.00100.07	C
ATOM	7977	O	ALA	C	617	13.599	95.239	-1.301	1.00100.07	C
ATOM	7978	N	ALA	C	618	14.629	95.201	-3.307	1.00100.07	C
ATOM	7979	CA	ALA	C	618	14.583	93.751	-3.454	1.00100.07	C
ATOM	7980	CB	ALA	C	618	15.319	93.336	-4.737	1.00100.07	C
ATOM	7981	C	ALA	C	618	15.174	93.027	-2.242	1.00100.07	C
ATOM	7982	O	ALA	C	618	15.940	93.605	-1.470	1.00100.07	C
ATOM	7983	N	ALA	C	619	14.798	91.760	-2.086	1.00 92.15	C
ATOM	7984	CA	ALA	C	619	15.276	90.928	-0.994	1.00 92.15	C
ATOM	7985	CB	ALA	C	6					

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ATOM	8027	O	ALA	C	627	32.518	79.419	15.508	1.00	41.98	C
ATOM	8028	N	ALA	C	628	32.190	81.636	15.245	1.00	100.07	C
ATOM	8029	CA	ALA	C	628	33.587	81.963	14.948	1.00	100.07	C
ATOM	8030	CB	ALA	C	628	33.709	83.422	14.600	1.00	100.07	C
ATOM	8031	C	ALA	C	628	34.554	81.621	16.070	1.00	100.07	C
ATOM	8032	O	ALA	C	628	34.253	80.755	16.890	1.00	100.07	C
ATOM	8033	N	ALA	C	629	35.713	82.283	16.119	1.00	24.80	C
ATOM	8034	CA	ALA	C	629	36.684	81.968	17.176	1.00	24.80	C
ATOM	8035	CB	ALA	C	629	37.117	80.502	17.042	1.00	66.14	C
ATOM	8036	C	ALA	C	629	37.919	82.863	17.237	1.00	24.80	C
ATOM	8037	O	ALA	C	629	37.807	84.089	17.159	1.00	24.80	C
ATOM	8038	N	ALA	C	630	39.076	82.212	17.420	1.00	99.68	C
ATOM	8039	CA	ALA	C	630	40.430	82.800	17.506	1.00	99.68	C
ATOM	8040	CB	ALA	C	630	41.170	82.533	16.194	1.00	88.40	C
ATOM	8041	C	ALA	C	630	40.564	84.291	17.899	1.00	99.68	C
ATOM	8042	O	ALA	C	630	39.715	85.096	17.542	1.00	99.68	C
ATOM	8043	N	ALA	C	631	41.660	84.652	18.584	1.00	60.35	C
ATOM	8044	CA	ALA	C	631	41.895	86.025	19.077	1.00	60.35	C
ATOM	8045	CB	ALA	C	631	41.838	87.057	17.936	1.00	5.07	C
ATOM	8046	C	ALA	C	631	40.702	86.171	19.989	1.00	60.35	C
ATOM	8047	O	ALA	C	631	40.819	86.388	21.200	1.00	60.35	C
ATOM	8048	N	ALA	C	632	39.551	86.027	19.349	1.00	100.07	C
ATOM	8049	CA	ALA	C	632	38.267	86.012	19.992	1.00	100.07	C
ATOM	8050	CB	ALA	C	632	37.161	86.033	18.954	1.00	5.07	C
ATOM	8051	C	ALA	C	632	38.366	84.635	20.599	1.00	100.07	C
ATOM	8052	O	ALA	C	632	37.631	83.731	20.210	1.00	100.07	C
ATOM	8053	N	ALA	C	633	39.322	84.463	21.506	1.00	100.07	C
ATOM	8054	CA	ALA	C	633	39.517	83.185	22.166	1.00	100.07	C
ATOM	8055	CB	ALA	C	633	40.373	83.372	23.399	1.00	46.63	C
ATOM	8056	C	ALA	C	633	38.140	82.628	22.541	1.00	100.07	C
ATOM	8057	O	ALA	C	633	37.993	81.436	22.813	1.00	100.07	C
ATOM	8058	N	ALA	C	634	37.139	83.510	22.537	1.00	86.54	C
ATOM	8059	CA	ALA	C	634	35.766	83.152	22.858	1.00	86.54	C
ATOM	8060	CB	ALA	C	634	35.220	84.115	23.902	1.00	100.07	C
ATOM	8061	C	ALA	C	634	34.854	83.137	21.619	1.00	86.54	C
ATOM	8062	O	ALA	C	634	34.893	84.039	20.783	1.00	86.54	C
ATOM	8063	N	ALA	C	635	34.034	82.094	21.525	1.00	19.09	C
ATOM	8064	CA	ALA	C	635	33.100	81.889	20.424	1.00	19.09	C
ATOM	8065	CB	ALA	C	635	32.201	80.710	20.742	1.00	100.07	C
ATOM	8066	C	ALA	C	635	32.258	83.115	20.163	1.00	19.09	C
ATOM	8067	O	ALA	C	635	31.335	83.387	20.914	1.00	19.09	C
ATOM	8068	N	ALA	C	636	32.545	83.831	19.082	1.00	11.13	C
ATOM	8069	CA	ALA	C	636	31.803	85.055	18.779	1.00	11.13	C
ATOM	8070	CB	ALA	C	636	32.768	86.193	18.415	1.00	57.46	C
ATOM	8071	C	ALA	C	636	30.774	84.902	17.697	1.00	11.13	C
ATOM	8072	O	ALA	C	636	30.923	85.469	16.610	1.00	11.13	C
ATOM	8073	N	ALA	C	637	29.713	84.183	18.049	1.00	99.58	C
ATOM	8074	CA	ALA	C	637	28.589	83.870	17.175	1.00	99.58	C
ATOM	8075	CB	ALA	C	637	28.088	82.484	17.515	1.00	21.95	C
ATOM	8076	C	ALA	C	637	27.417	84.849	17.223	1.00	99.58	C
ATOM	8077	O	ALA	C	637	26.987	85.274	18.292	1.00	99.58	C
ATOM	8078	N	ALA	C	638	26.894	85.187	16.051	1.00	53.59	C
ATOM	8079	CA	ALA	C	638	25.754	86.084	15.951	1.00	53.59	C
ATOM	8080	CB	ALA	C	638	25.761	86.768	14.566	1.00	12.66	C
ATOM	8081	C	ALA	C	638	24.525	85.164	16.123	1.00	53.59	C
ATOM	8082	O	ALA	C	638	24.686	83.937	16.078	1.00	53.59	C
ATOM	8083	N	ALA	C	639	23.322	85.723	16.337	1.00	64.18	C
ATOM	8084	CA	ALA	C	639	22.101	84.901	16.499	1.00	64.18	C
ATOM	8085	CB	ALA	C	639	21.651	84.896	17.941	1.00	5.07	C
ATOM	8086	C	ALA	C	639	20.905	85.232	15.600	1.00	64.18	C
ATOM	8087	O	ALA	C	639	21.040	85.302	14.376	1.00	64.18	C
ATOM	8088	N	ALA	C	640	19.733	85.433	16.198	1.00	81.73	C
ATOM	8089	CA	ALA	C	640	18.538	85.696	15.402	1.00	81.73	C
ATOM	8090	CB	ALA	C	640	17.832	84.368	15.146	1.00	6.94	C
ATOM	8091	C	ALA	C	640	17.545	86.735	15.965	1.00	81.73	C
ATOM	8092	O	ALA	C	640	17.739	87.266	17.055	1.00	81.73	C
ATOM	8093	N	ALA	C	641	16.490	87.031	15.200	1.00	100.07	C
ATOM	8094	CA	ALA	C	641	15.458	87.994	15.610	1.00	100.07	C
ATOM	8095	CB	ALA	C	641	15.698	89.335	14.941	1.00	89.32	C
ATOM	8096	C	ALA	C	641	14.010	87.515	15.350	1.00	100.07	C
ATOM	8097	O	ALA	C	641	13.554	86.581	16.007	1.00	100.07	C
ATOM	8098	N	ALA	C	642	13.286	88.127	14.406	1.00	100.07	C
ATOM	8099	CA	ALA	C	642	11.886	87.720	14.147	1.00	100.07	C
ATOM	8100	CB	ALA	C	642	10.940	88.852	14.547	1.00	100.07	C
ATOM	8101	C	ALA	C	642	11.543	87.248	12.726	1.00	100.07	C
ATOM	8102	O	ALA	C	642	12.437	86.988	11.924	1.00	100.07	C
ATOM	8103	N	ALA	C	643	10.245	87.144	12.421	1.00	99.66	C
ATOM	8104	CA	ALA	C	643	9.788	86.691	11.097	1.00	99.66	C
ATOM	8105	CB	ALA	C	643	9.862	85.175	11.024	1.00	9.74	C
ATOM	8106	C	ALA	C	643	8.376	87.150	10.691	1.00	99.66	C
ATOM	8107	O	ALA	C	643	7.386	86.502	11.039	1.00	99.66	C
ATOM	8108	N	ALA	C	644	8.306	88.250	9.936	1.00	96.96	C
ATOM	8109	CA	ALA	C	644	7.054	88.850	9.445	1.00	96.96	C
ATOM	8110	CB	ALA	C	644	5.916	87.825	9.444	1.00	78.40	C

ATOM	8111	C	ALA	C	644	6.634	90.091	10.240	1.00	96.96	C
ATOM	8112	O	ALA	C	644	5.518	90.163	10.769	1.00	96.96	C
ATOM	8113	N	ALA	C	645	7.539	91.064	10.306	1.00	100.07	C
ATOM	8114	CA	ALA	C	645	7.309	92.321	11.017	1.00	100.07	C
ATOM	8115	CB	ALA	C	645	8.166	92.379	12.290	1.00	100.07	C
ATOM	8116	C	ALA	C	645	7.677	93.476	10.094	1.00	100.07	C
ATOM	8117	O	ALA	C	645	7.401	93.430	8.892	1.00	100.07	C
ATOM	8118	N	ALA	C	646	8.315	94.501	10.652	1.00	100.07	C
ATOM	8119	CA	ALA	C	646	8.714	95.655	9.861	1.00	100.07	C
ATOM	8120	CB	ALA	C	646	7.475	96.434	9.430	1.00	100.07	C
ATOM	8121	C	ALA	C	646	9.645	96.548	10.663	1.00	100.07	C
ATOM	8122	O	ALA	C	646	9.238	97.117	11.669	1.00	100.07	C
ATOM	8123	N	ALA	C	647	10.893	96.659	10.218	1.00	100.07	C
ATOM	8124	CA	ALA	C	647	11.902	97.489	10.877	1.00	100.07	C
ATOM	8125	CB	ALA	C	647	11.552	98.993	10.715	1.00	43.12	C
ATOM	8126	C	ALA	C	647	12.127	97.153	12.357	1.00	100.07	C
ATOM	8127	O	ALA	C	647	13.271	97.110	12.819	1.00	100.07	C
ATOM	8128	N	ALA	C	648	11.047	96.902	13.096	1.00	100.07	C
ATOM	8129	CA	ALA	C	648	11.142	96.590	14.521	1.00	100.07	C
ATOM	8130	CB	ALA	C	648	12.314	95.638	14.784	1.00	100.07	C
ATOM	8131	C	ALA	C	648	11.365	97.907	15.260	1.00	100.07	C
ATOM	8132	O	ALA	C	648	12.443	98.480	15.175	1.00	100.07	C
ATOM	8133	N	ALA	C	649	10.356	98.377	15.990	1.00	100.07	C
ATOM	8134	CA	ALA	C	649	10.475	99.652	16.710	1.00	100.07	C
ATOM	8135	CB	ALA	C	649	9.850	100.778	15.858	1.00	100.07	C
ATOM	8136	C	ALA	C	649	9.920	99.720	18.147	1.00	100.07	C
ATOM	8137	O	ALA	C	649	9.275	100.708	18.528	1.00	100.07	C
ATOM	8138	N	ALA	C	650	10.164	98.689	18.947	1.00	100.07	C
ATOM	8139	CA	ALA	C	650	9.689	98.712	20.325	1.00	100.07	C
ATOM	8140	CB	ALA	C	650	9.852	97.344	20.963	1.00	100.07	C
ATOM	8141	C	ALA	C	650	10.494	99.769	21.098	1.00	100.07	C
ATOM	8142	O	ALA	C	650	9.979	100.438	22.001	1.00	100.07	C
ATOM	8143	N	ALA	C	651	11.762	99.912	20.721	1.00	100.07	C
ATOM	8144	CA	ALA	C	651	12.680	100.885	21.319	1.00	100.07	C
ATOM	8145	CB	ALA	C	651	13.060	100.461	22.755	1.00	68.86	C
ATOM	8146	C	ALA	C	651	13.922	100.944	20.414	1.00	100.07	C
ATOM	8147	O	ALA	C	651	14.869	101.710	20.662	1.00	100.07	C
ATOM	8148	N	GLY	C	552	13.879	100.131	19.354	1.00	100.07	C
ATOM	8149	CA	GLY	C	552	14.961	100.048	18.381	1.00	100.07	C
ATOM	8150	C	GLY	C	552	14.658	99.059	17.252	1.00	100.07	C
ATOM	8151	O	GLY	C	552	13.848	98.137	17.427	1.00	100.07	C
ATOM	8152	N	ASP	C	653	15.318	99.241	16.102	1.00	100.07	C
ATOM	8153	CA	ASP	C	653	15.130	98.390	14.913	1.00	100.07	C
ATOM	8154	CB	ASP	C	653	15.022	99.277	13.663	1.00	100.07	C
ATOM	8155	CG	ASP	C	653	14.086	100.464	13.867	1.00	100.07	C
ATOM	8156	OD1	ASP	C	653	12.857	100.264	14.005	1.00	100.07	C
ATOM	8157	OD2	ASP	C	653	14.593	101.608	13.893	1.00	100.07	C
ATOM	8158	C	ASP	C	653	16.239	97.343	14.711	1.00	100.07	C
ATOM	8159	O	ASP	C	653	16.973	97.372	13.719	1.00	100.07	C
ATOM	8160	N	LEU	C	654	16.316	96.410	15.656	1.00	100.07	C
ATOM	8161	CA	LEU	C	654	17.307	95.338	15.672	1.00	100.07	C
ATOM	8162	CB	LEU	C	654	17.106	94.454	16.895	1.00	94.26	C
ATOM	8163	CG	LEU	C	654	16.722	95.116	18.216	1.00	100.01	C
ATOM	8164	CD1	LEU	C	654	15.989	94.100	19.103	1.00	100.01	C
ATOM	8165	CD2	LEU	C	654	17.971	95.663	18.905	1.00	100.01	C
ATOM	8166	C	LEU	C	654	17.275	94.418	14.474	1.00	100.07	C
ATOM	8167	O	LEU	C	654	16.743	94.747	13.417	1.00	100.07	C
ATOM	8168	N	LEU	C	655	17.850	93.241	14.706	1.00	100.07	C
ATOM	8169	CA	LEU	C	655	17.970	92.142	13.759	1.00	100.07	C
ATOM	8170	CB	LEU	C	655	18.557	92.593	12.424	1.00	88.96	C
ATOM	8171	CG	LEU	C	655	17.708	93.228	11.332	1.00	81.76	C
ATOM	8172	CD1	LEU	C	655	18.496	93.174	10.040	1.00	81.76	C
ATOM	8173	CD2	LEU	C	655	16.402	92.492	11.164	1.00	81.76	C
ATOM	8174	C	LEU	C	655	18.942	91.162	14.395	1.00	100.07	C
ATOM	8175	O	LEU	C	655	20.037	91.548	14.803	1.00	100.07	C
ATOM	8176	N	ALA	C	656	18.554	89.897	14.468	1.00	99.65	C
ATOM	8177	CA	ALA	C	656	19.421	88.897	15.068	1.00	99.65	C
ATOM	8178	CB	ALA	C	656	20.639	88.640	14.191	1.00	70.74	C
ATOM	8179	C	ALA	C	656	19.864	89.458	16.393	1.00	99.65	C
ATOM	8180	O	ALA	C	656	19.109	90.176	17.048	1.00	99.65	C
ATOM	8181	N	ASP	C	657	21.102	89.141	16.764	1.00	66.20	C
ATOM	8182	CA	ASP	C	657	21.700	89.601	18.012	1.00	66.20	C
ATOM	8183	CB	ASP	C	657	21.322	88.684	19.187	1.00	100.07	C
ATOM	8184	CG	ASP	C	657	20.486	89.390	20.262	1.00	100.07	C
ATOM	8185	OD1	ASP	C	657	20.406	90.638	20.258	1.00	100.07	C
ATOM	8186	OD2	ASP	C	657	19.921	88.687	21.129	1.00	100.07	C
ATOM	8187	C	ASP	C	657	23.189	89.521	17.778	1.00	66.20	C
ATOM	8188	O	ASP	C	657	23.638	89.676	16.647	1.00	66.20	C
ATOM	8189	N	GLY	C	658	23.948	89.255	18.833	1.00	44.26	C
ATOM	8190	CA	GLY	C	658	25.390	89.170	18.701	1.00	44.26	C
ATOM	8191	C	GLY	C	658	26.107	88.359	19.772	1.00	44.26	C
ATOM	8192	O	GLY	C	658	25.648	87.275	20.142	1.00	44.26	C
ATOM	8193	N	PRO	C	659	27.241	88.863	20.301	1.00	25.56	C
ATOM	8194	CD	PRO	C	659	28.004	90.021	19.797	1.00	70.81	C

ATOM	8195	CA	PRO	C	659	28.013	88.167	21.325	1.00	25.56	C
ATOM	8196	CB	PRO	C	659	29.435	88.553	20.967	1.00	65.06	C
ATOM	8197	CG	PRO	C	659	29.270	89.992	20.657	1.00	70.81	C
ATOM	8198	C	PRO	C	659	27.669	88.551	22.753	1.00	25.56	C
ATOM	8199	O	PRO	C	659	28.353	88.138	23.690	1.00	25.56	C
ATOM	8200	N	ALA	C	660	26.634	89.357	22.934	1.00	72.37	C
ATOM	8201	CA	ALA	C	660	26.241	89.754	24.279	1.00	72.37	C
ATOM	8202	CB	ALA	C	660	27.325	90.609	24.912	1.00	11.08	C
ATOM	8203	C	ALA	C	660	24.933	90.509	24.254	1.00	72.37	C
ATOM	8204	O	ALA	C	660	24.361	90.818	25.293	1.00	72.37	C
ATOM	8205	N	SER	C	661	24.451	90.816	23.065	1.00	88.91	C
ATOM	8206	CA	SER	C	661	23.209	91.539	22.998	1.00	88.91	C
ATOM	8207	CB	SER	C	661	22.787	91.776	21.554	1.00	73.45	C
ATOM	8208	OG	SER	C	661	22.669	90.543	20.875	1.00	73.45	C
ATOM	8209	C	SER	C	661	22.138	90.756	23.715	1.00	88.91	C
ATOM	8210	O	SER	C	661	21.669	89.721	23.238	1.00	88.91	C
ATOM	8211	N	GLU	C	662	21.789	91.230	24.903	1.00	99.95	C
ATOM	8212	CA	GLU	C	662	20.702	90.610	25.624	1.00	99.95	C
ATOM	8213	CB	GLU	C	662	20.658	91.047	27.097	1.00	100.07	C
ATOM	8214	CG	GLU	C	662	20.078	89.978	28.037	1.00	100.07	C
ATOM	8215	CD	GLU	C	662	18.634	89.639	27.735	1.00	100.07	C
ATOM	8216	OE1	GLU	C	662	17.777	90.537	27.881	1.00	100.07	C
ATOM	8217	OE2	GLU	C	662	18.353	88.482	27.352	1.00	100.07	C
ATOM	8218	C	GLU	C	662	19.653	91.330	24.803	1.00	99.95	C
ATOM	8219	O	GLU	C	662	18.768	92.007	25.319	1.00	99.95	C
ATOM	8220	N	GLU	C	663	19.816	91.202	23.492	1.00	42.52	C
ATOM	8221	CA	GLU	C	663	18.943	91.832	22.537	1.00	42.52	C
ATOM	8222	CB	GLU	C	663	17.481	91.645	22.955	1.00	100.07	C
ATOM	8223	CG	GLU	C	663	17.078	90.185	23.126	1.00	100.07	C
ATOM	8224	CD	GLU	C	663	15.632	90.013	23.557	1.00	100.07	C
ATOM	8225	OE1	GLU	C	663	14.958	91.020	23.869	1.00	100.07	C
ATOM	8226	OE2	GLU	C	663	15.168	88.857	23.589	1.00	100.07	C
ATOM	8227	C	GLU	C	663	19.321	93.293	22.563	1.00	42.52	C
ATOM	8228	O	GLU	C	663	18.893	94.024	23.448	1.00	42.52	C
ATOM	8229	N	GLY	C	664	20.163	93.697	21.619	1.00	65.62	C
ATOM	8230	CA	GLY	C	664	20.585	95.084	21.529	1.00	65.62	C
ATOM	8231	C	GLY	C	664	21.279	95.676	22.746	1.00	65.62	C
ATOM	8232	O	GLY	C	664	22.170	96.515	22.602	1.00	65.62	C
ATOM	8233	N	PHE	C	665	20.867	95.277	23.945	1.00	23.68	C
ATOM	8234	CA	PHE	C	665	21.488	95.800	25.141	1.00	23.68	C
ATOM	8235	CB	PHE	C	665	20.546	95.667	26.329	1.00	74.15	C
ATOM	8236	CG	PHE	C	665	19.294	96.475	26.176	1.00	74.15	C
ATOM	8237	CD1	PHE	C	665	18.172	95.932	25.569	1.00	74.15	C
ATOM	8238	CD2	PHE	C	665	19.263	97.811	26.562	1.00	74.15	C
ATOM	8239	CE1	PHE	C	665	17.032	96.710	25.342	1.00	74.15	C
ATOM	8240	CE2	PHE	C	665	18.134	98.596	26.342	1.00	74.15	C
ATOM	8241	CZ	PHE	C	665	17.016	98.046	25.729	1.00	74.15	C
ATOM	8242	C	PHE	C	665	22.743	94.999	25.339	1.00	23.68	C
ATOM	8243	O	PHE	C	665	22.845	93.900	24.820	1.00	23.68	C
ATOM	8244	N	LEU	C	666	23.718	95.546	26.050	1.00	42.54	C
ATOM	8245	CA	LEU	C	666	24.960	94.820	26.261	1.00	42.54	C
ATOM	8246	CB	LEU	C	666	26.082	95.803	26.597	1.00	72.22	C
ATOM	8247	CG	LEU	C	666	27.452	95.248	26.990	1.00	72.22	C
ATOM	8248	CD1	LEU	C	666	27.825	94.066	26.118	1.00	72.22	C
ATOM	8249	CD2	LEU	C	666	28.478	96.357	26.857	1.00	72.22	C
ATOM	8250	C	LEU	C	666	24.802	93.788	27.374	1.00	42.54	C
ATOM	8251	O	LEU	C	666	24.065	94.010	28.334	1.00	42.54	C
ATOM	8252	N	ALA	C	667	25.478	92.652	27.240	1.00	50.65	C
ATOM	8253	CA	ALA	C	667	25.388	91.614	28.256	1.00	50.65	C
ATOM	8254	CB	ALA	C	667	24.253	90.654	27.924	1.00	5.07	C
ATOM	8255	C	ALA	C	667	26.702	90.856	28.384	1.00	50.65	C
ATOM	8256	O	ALA	C	667	27.093	90.101	27.492	1.00	50.65	C
ATOM	8257	N	LEU	C	668	27.390	91.066	29.498	1.00	31.94	C
ATOM	8258	CA	LEU	C	668	28.650	90.390	29.725	1.00	31.94	C
ATOM	8259	CB	LEU	C	668	29.698	91.373	30.227	1.00	62.68	C
ATOM	8260	CG	LEU	C	668	29.964	92.516	29.246	1.00	62.68	C
ATOM	8261	CD1	LEU	C	668	31.213	93.289	29.664	1.00	62.68	C
ATOM	8262	CD2	LEU	C	668	30.151	91.952	27.852	1.00	62.68	C
ATOM	8263	C	LEU	C	668	28.420	89.296	30.736	1.00	31.94	C
ATOM	8264	O	LEU	C	668	28.607	88.125	30.439	1.00	31.94	C
ATOM	8265	N	GLY	C	669	28.005	89.674	31.934	1.00	40.01	C
ATOM	8266	CA	GLY	C	669	27.744	88.677	32.951	1.00	40.01	C
ATOM	8267	C	GLY	C	669	26.274	88.339	32.945	1.00	40.01	C
ATOM	8268	O	GLY	C	669	25.545	88.765	32.059	1.00	40.01	C
ATOM	8269	N	GLN	C	670	25.837	87.571	33.929	1.00	37.92	C
ATOM	8270	CA	GLN	C	670	24.442	87.200	34.024	1.00	37.92	C
ATOM	8271	CB	GLN	C	670	24.243	85.723	33.729	1.00	99.48	C
ATOM	8272	CG	GLN	C	670	24.932	85.190	32.513	1.00	99.48	C
ATOM	8273	CD	GLN	C	670	24.602	83.731	32.308	1.00	99.48	C
ATOM	8274	OE1	GLN	C	670	23.436	83.370	32.170	1.00	99.48	C
ATOM	8275	NE2	GLN	C	670	25.620	82.881	32.300	1.00	99.48	C
ATOM	8276	C	GLN	C	670	24.074	87.418	35.467	1.00	37.92	C
ATOM	8277	O	GLN	C	670	24.299	86.523	36.271	1.00	37.92	C
ATOM	8278	N	ASN	C	671	23.506	88.577	35.800	1.00	55.65	C

ATOM	8279	CA	ASN	C	671	23.124	88.903	37.184	1.00	55.65	C
ATOM	8280	CB	ASN	C	671	22.488	90.304	37.237	1.00	36.47	C
ATOM	8281	CG	ASN	C	671	21.422	90.517	36.171	1.00	36.47	C
ATOM	8282	OD1	ASN	C	671	21.022	89.585	35.474	1.00	36.47	C
ATOM	8283	ND2	ASN	C	671	20.953	91.752	36.046	1.00	36.47	C
ATOM	8284	C	ASN	C	671	22.225	87.903	37.930	1.00	55.65	C
ATOM	8285	O	ASN	C	671	21.169	87.513	37.436	1.00	55.65	C
ATOM	8286	N	VAL	C	672	22.657	87.500	39.125	1.00	60.20	C
ATOM	8287	CA	VAL	C	672	21.907	86.553	39.950	1.00	60.20	C
ATOM	8288	CB	VAL	C	672	22.636	85.198	40.078	1.00	49.89	C
ATOM	8289	CG1	VAL	C	672	22.828	84.575	38.710	1.00	49.89	C
ATOM	8290	CG2	VAL	C	672	23.966	85.383	40.772	1.00	49.89	C
ATOM	8291	C	VAL	C	672	21.648	87.088	41.360	1.00	60.20	C
ATOM	8292	O	VAL	C	672	22.086	88.185	41.708	1.00	60.20	C
ATOM	8293	N	LEU	C	673	20.950	86.297	42.172	1.00	44.28	C
ATOM	8294	CA	LEU	C	673	20.599	86.692	43.532	1.00	44.28	C
ATOM	8295	CB	LEU	C	673	19.350	85.928	43.978	1.00	43.43	C
ATOM	8296	CG	LEU	C	673	18.399	86.621	44.956	1.00	43.43	C
ATOM	8297	CD1	LEU	C	673	17.069	85.881	45.034	1.00	43.43	C
ATOM	8298	CD2	LEU	C	673	19.064	86.685	46.304	1.00	43.43	C
ATOM	8299	C	LEU	C	673	21.754	86.455	44.493	1.00	44.28	C
ATOM	8300	O	LEU	C	673	22.061	85.324	44.864	1.00	44.28	C
ATOM	8301	N	VAL	C	674	22.371	87.551	44.910	1.00	15.07	C
ATOM	8302	CA	VAL	C	674	23.531	87.527	45.783	1.00	15.07	C
ATOM	8303	CB	VAL	C	674	24.529	88.604	45.331	1.00	100.07	C
ATOM	8304	CG1	VAL	C	674	25.701	88.670	46.287	1.00	100.07	C
ATOM	8305	CG2	VAL	C	674	24.998	88.313	43.917	1.00	100.07	C
ATOM	8306	C	VAL	C	574	23.284	87.728	47.265	1.00	15.07	C
ATOM	8307	O	VAL	C	674	22.549	88.621	47.663	1.00	15.07	C
ATOM	8308	N	ALA	C	675	23.913	86.903	48.090	1.00	32.76	C
ATOM	8309	CA	ALA	C	675	23.785	87.047	49.534	1.00	32.76	C
ATOM	8310	CB	ALA	C	675	23.792	85.690	50.203	1.00	72.15	C
ATOM	8311	C	ALA	C	675	25.036	87.831	49.911	1.00	32.76	C
ATOM	8312	O	ALA	C	675	25.918	88.006	49.064	1.00	32.76	C
ATOM	8313	N	ILE	C	676	25.130	88.305	51.155	1.00	19.32	C
ATOM	8314	CA	ILE	C	676	26.312	89.062	51.571	1.00	19.32	C
ATOM	8315	CB	ILE	C	676	26.072	90.593	51.550	1.00	5.39	C
ATOM	8316	CG2	ILE	C	676	27.194	91.287	52.235	1.00	5.39	C
ATOM	8317	CG1	ILE	C	676	25.994	91.115	50.107	1.00	5.39	C
ATOM	8318	CD	ILE	C	676	25.831	92.648	49.974	1.00	5.39	C
ATOM	8319	C	ILE	C	676	26.653	88.688	52.979	1.00	19.32	C
ATOM	8320	O	ILE	C	676	26.248	89.380	53.885	1.00	19.32	C
ATOM	8321	N	MET	C	677	27.401	87.611	53.173	1.00	20.03	C
ATOM	8322	CA	MET	C	677	27.769	87.180	54.521	1.00	20.03	C
ATOM	8323	CB	MET	C	677	26.571	86.531	55.174	1.00	33.10	C
ATOM	8324	CG	MET	C	677	25.752	85.732	54.199	1.00	33.10	C
ATOM	8325	SD	MET	C	677	24.619	84.686	55.075	1.00	33.10	C
ATOM	8326	CE	MET	C	677	25.749	83.629	56.015	1.00	33.10	C
ATOM	8327	C	MET	C	677	28.961	86.224	54.556	1.00	20.03	C
ATOM	8328	O	MET	C	677	29.150	85.397	53.668	1.00	20.03	C
ATOM	8329	N	PRO	C	678	29.800	86.337	55.581	1.00	42.63	C
ATOM	8330	CD	PRO	C	678	29.751	87.187	56.779	1.00	15.40	C
ATOM	8331	CA	PRO	C	678	30.947	85.430	55.633	1.00	42.63	C
ATOM	8332	CB	PRO	C	678	31.701	85.907	56.872	1.00	15.40	C
ATOM	8333	CG	PRO	C	678	30.601	86.393	57.759	1.00	15.40	C
ATOM	8334	C	PRO	C	678	30.482	83.992	55.769	1.00	42.63	C
ATOM	8335	O	PRO	C	678	29.890	83.644	56.786	1.00	42.63	C
ATOM	8336	N	PHE	C	679	30.740	83.157	54.762	1.00	29.34	C
ATOM	8337	CA	PHE	C	679	30.322	81.747	54.828	1.00	29.34	C
ATOM	8338	CB	PHE	C	679	29.673	81.313	53.494	1.00	50.07	C
ATOM	8339	CG	PHE	C	679	28.584	80.269	53.648	1.00	50.07	C
ATOM	8340	CD1	PHE	C	679	27.287	80.638	53.969	1.00	50.07	C
ATOM	8341	CD2	PHE	C	679	28.869	78.920	53.504	1.00	50.07	C
ATOM	8342	CE1	PHE	C	679	26.292	79.676	54.150	1.00	50.07	C
ATOM	8343	CE2	PHE	C	679	27.883	77.959	53.683	1.00	50.07	C
ATOM	8344	CZ	PHE	C	679	26.595	78.335	54.008	1.00	50.07	C
ATOM	8345	C	PHE	C	679	31.490	80.802	55.176	1.00	29.34	C
ATOM	8346	O	PHE	C	679	32.302	80.457	54.324	1.00	29.34	C
ATOM	8347	N	ASP	C	680	31.554	80.401	56.440	1.00	14.67	C
ATOM	8348	CA	ASP	C	680	32.582	79.508	56.967	1.00	14.67	C
ATOM	8349	CB	ASP	C	680	32.037	78.085	57.041	1.00	41.08	C
ATOM	8350	CG	ASP	C	680	30.826	77.970	57.936	1.00	41.08	C
ATOM	8351	OD1	ASP	C	680	29.786	78.574	57.598	1.00	41.08	C
ATOM	8352	OD2	ASP	C	680	30.916	77.275	58.971	1.00	41.08	C
ATOM	8353	C	ASP	C	680	33.969	79.454	56.320	1.00	14.67	C
ATOM	8354	O	ASP	C	680	34.714	78.520	56.579	1.00	14.67	C
ATOM	8355	N	GLY	C	681	34.331	80.435	55.502	1.00	31.79	C
ATOM	8356	CA	GLY	C	681	35.654	80.420	54.892	1.00	31.79	C
ATOM	8357	C	GLY	C	681	35.663	80.347	53.377	1.00	31.79	C
ATOM	8358	O	GLY	C	681	36.491	80.959	52.698	1.00	31.79	C
ATOM	8359	N	TYR	C	682	34.716	79.598	52.840	1.00	19.16	C
ATOM	8360	CA	TYR	C	682	34.627	79.429	51.419	1.00	19.16	C
ATOM	8361	CB	TYR	C	682	33.422	78.546	51.110	1.00	28.99	C
ATOM	8362	CG	TYR	C	682	33.624	77.236	51.847	1.00	28.99	C

ATOM	8363	CD1	TYR	C	682	34.634	76.349	51.472	1.00	28.99	C
ATOM	8364	CE1	TYR	C	682	35.004	75.281	52.293	1.00	28.99	C
ATOM	8365	CD2	TYR	C	682	32.981	76.995	53.055	1.00	28.99	C
ATOM	8366	CE2	TYR	C	682	33.346	75.934	53.874	1.00	28.99	C
ATOM	8367	CZ	TYR	C	682	34.356	75.092	53.493	1.00	28.99	C
ATOM	8368	OH	TYR	C	582	34.727	74.087	54.349	1.00	28.99	C
ATOM	8369	C	TYR	C	682	34.615	80.776	50.760	1.00	19.16	C
ATOM	8370	O	TYR	C	682	34.868	80.878	49.562	1.00	19.16	C
ATOM	8371	N	ASN	C	683	34.361	81.827	51.535	1.00	18.87	C
ATOM	8372	CA	ASN	C	683	34.411	83.170	50.964	1.00	18.87	C
ATOM	8373	CB	ASN	C	683	33.009	83.791	50.764	1.00	62.59	C
ATOM	8374	CG	ASN	C	683	32.288	84.097	52.062	1.00	62.59	C
ATOM	8375	OD1	ASN	C	683	32.728	83.699	53.140	1.00	62.59	C
ATOM	8376	ND2	ASN	C	683	31.156	84.802	51.958	1.00	62.59	C
ATOM	8377	C	ASN	C	683	35.286	84.055	51.812	1.00	18.87	C
ATOM	8378	O	ASN	C	683	34.949	85.193	52.092	1.00	18.87	C
ATOM	8379	N	PHE	C	684	36.417	83.492	52.225	1.00	40.54	C
ATOM	8380	CA	PHE	C	684	37.444	84.179	53.014	1.00	40.54	C
ATOM	8381	CB	PHE	C	684	38.366	83.120	53.608	1.00	13.84	C
ATOM	8382	CG	PHE	C	684	39.643	83.642	54.244	1.00	13.84	C
ATOM	8383	CD1	PHE	C	684	39.729	83.816	55.619	1.00	13.84	C
ATOM	8384	CD2	PHE	C	684	40.807	83.761	53.490	1.00	13.84	C
ATOM	8385	CE1	PHE	C	684	40.944	84.074	56.227	1.00	13.84	C
ATOM	8386	CE2	PHE	C	684	42.026	84.022	54.103	1.00	13.84	C
ATOM	8387	CZ	PHE	C	684	42.089	84.172	55.473	1.00	13.84	C
ATOM	8388	C	PHE	C	684	38.187	85.042	51.997	1.00	40.54	C
ATOM	8389	O	PHE	C	684	38.327	84.661	50.837	1.00	40.54	C
ATOM	8390	N	GLU	C	685	38.674	86.200	52.408	1.00	88.25	C
ATOM	8391	CA	GLU	C	685	39.337	87.056	51.442	1.00	88.25	C
ATOM	8392	CB	GLU	C	685	40.546	86.360	50.829	1.00	83.88	C
ATOM	8393	CG	GLU	C	685	41.750	86.366	51.732	1.00	83.88	C
ATOM	8394	CD	GLU	C	685	42.012	87.736	52.332	1.00	83.88	C
ATOM	8395	OE1	GLU	C	685	41.819	88.745	51.623	1.00	83.88	C
ATOM	8396	OE2	GLU	C	685	42.418	87.807	53.511	1.00	83.88	C
ATOM	8397	C	GLU	C	685	38.317	87.365	50.358	1.00	88.25	C
ATOM	8398	O	GLU	C	685	37.157	87.658	50.661	1.00	88.25	C
ATOM	8399	N	ASP	C	686	38.723	87.280	49.097	1.00	55.13	C
ATOM	8400	CA	ASP	C	686	37.788	87.591	48.028	1.00	55.13	C
ATOM	8401	CB	ASP	C	686	38.470	88.488	46.995	1.00	100.07	C
ATOM	8402	CG	ASP	C	686	38.885	89.830	47.577	1.00	100.07	C
ATOM	8403	OD1	ASP	C	686	38.008	90.556	48.093	1.00	100.07	C
ATOM	8404	OD2	ASP	C	686	40.088	90.158	47.518	1.00	100.07	C
ATOM	8405	C	ASP	C	686	37.161	86.368	47.355	1.00	55.13	C
ATOM	8406	O	ASP	C	686	36.494	86.488	46.316	1.00	55.13	C
ATOM	8407	N	ALA	C	687	37.368	85.192	47.946	1.00	61.11	C
ATOM	8408	CA	ALA	C	687	36.784	83.972	47.400	1.00	61.11	C
ATOM	8409	CB	ALA	C	687	37.206	82.785	48.210	1.00	31.25	C
ATOM	8410	C	ALA	C	687	35.267	84.128	47.446	1.00	61.11	C
ATOM	8411	O	ALA	C	687	34.726	84.789	48.334	1.00	61.11	C
ATOM	8412	N	ILE	C	688	34.583	83.500	46.500	1.00	23.75	C
ATOM	8413	CA	ILE	C	688	33.139	83.615	46.407	1.00	23.75	C
ATOM	8414	CB	ILE	C	688	32.785	84.463	45.224	1.00	35.11	C
ATOM	8415	CG2	ILE	C	688	31.292	84.628	45.144	1.00	35.11	C
ATOM	8416	CG1	ILE	C	688	33.543	85.776	45.314	1.00	35.11	C
ATOM	8417	CD	ILE	C	688	33.348	86.641	44.117	1.00	35.11	C
ATOM	8418	C	ILE	C	688	32.447	82.293	46.199	1.00	23.75	C
ATOM	8419	O	ILE	C	688	32.639	81.676	45.162	1.00	23.75	C
ATOM	8420	N	VAL	C	689	31.620	81.872	47.146	1.00	15.37	C
ATOM	8421	CA	VAL	C	689	30.903	80.607	47.014	1.00	15.37	C
ATOM	8422	CB	VAL	C	689	30.151	80.301	48.300	1.00	12.44	C
ATOM	8423	CG1	VAL	C	689	29.438	78.980	48.168	1.00	12.44	C
ATOM	8424	CG2	VAL	C	689	31.112	80.264	49.464	1.00	12.44	C
ATOM	8425	C	VAL	C	689	29.887	80.589	45.840	1.00	15.37	C
ATOM	8426	O	VAL	C	689	29.391	81.638	45.440	1.00	15.37	C
ATOM	8427	N	ILE	C	690	29.590	79.414	45.276	1.00	38.82	C
ATOM	8428	CA	ILE	C	690	28.607	79.326	44.186	1.00	38.82	C
ATOM	8429	CB	ILE	C	690	29.187	78.832	42.835	1.00	64.94	C
ATOM	8430	CG2	ILE	C	690	28.147	79.006	41.753	1.00	64.94	C
ATOM	8431	CG1	ILE	C	690	30.395	79.633	42.390	1.00	64.94	C
ATOM	8432	CD	ILE	C	690	30.920	79.167	41.030	1.00	64.94	C
ATOM	8433	C	ILE	C	690	27.546	78.283	44.530	1.00	38.82	C
ATOM	8434	O	ILE	C	690	27.840	77.301	45.231	1.00	38.82	C
ATOM	8435	N	SER	C	691	26.324	78.495	44.019	1.00	26.09	C
ATOM	8436	CA	SER	C	691	25.208	77.555	44.206	1.00	26.09	C
ATOM	8437	CB	SER	C	691	23.880	78.275	44.414	1.00	77.43	C
ATOM	8438	OG	SER	C	691	22.809	77.362	44.232	1.00	77.43	C
ATOM	8439	C	SER	C	691	25.093	76.694	42.954	1.00	26.09	C
ATOM	8440	O	SER	C	691	24.718	77.173	41.885	1.00	26.09	C
ATOM	8441	N	GLU	C	692	25.429	75.422	43.117	1.00	5.07	C
ATOM	8442	CA	GLU	C	692	25.418	74.442	42.055	1.00	5.07	C
ATOM	8443	CB	GLU	C	692	25.182	73.065	42.660	1.00	41.10	C
ATOM	8444	CG	GLU	C	692	25.056	71.944	41.668	1.00	41.10	C
ATOM	8445	CD	GLU	C	692	25.390	70.606	42.289	1.00	41.10	C
ATOM	8446	OE1	GLU	C	692	24.959	70.356	43.429	1.00	41.10	C

ATOM	8447	OE2	GLU	C	692	26.079	69.798	41.639	1.00	41.10	C
ATOM	8448	C	GLU	C	692	24.390	74.747	40.994	1.00	5.07	C
ATOM	8449	O	GLU	C	692	24.638	74.546	39.809	1.00	5.07	C
ATOM	8450	N	GLU	C	693	23.243	75.261	41.417	1.00	37.66	C
ATOM	8451	CA	GLU	C	693	22.179	75.576	40.477	1.00	37.66	C
ATOM	8452	CB	GLU	C	693	21.149	76.493	41.140	1.00	74.69	C
ATOM	8453	CG	GLU	C	693	19.718	76.122	40.808	1.00	74.69	C
ATOM	8454	CD	GLU	C	693	19.369	74.712	41.257	1.00	74.69	C
ATOM	8455	OE1	GLU	C	693	20.030	73.749	40.808	1.00	74.69	C
ATOM	8456	OE2	GLU	C	693	18.432	74.561	42.064	1.00	74.69	C
ATOM	8457	C	GLU	C	693	22.688	76.199	39.163	1.00	37.66	C
ATOM	8458	O	GLU	C	693	22.480	75.636	38.090	1.00	37.66	C
ATOM	8459	N	LEU	C	694	23.365	77.345	39.244	1.00	30.35	C
ATOM	8460	CA	LEU	C	694	23.887	78.019	38.047	1.00	30.35	C
ATOM	8461	CB	LEU	C	694	24.924	79.084	38.435	1.00	24.48	C
ATOM	8462	CG	LEU	C	694	24.530	80.143	39.461	1.00	24.48	C
ATOM	8463	CD1	LEU	C	694	25.612	81.220	39.574	1.00	24.48	C
ATOM	8464	CD2	LEU	C	694	23.226	80.765	39.022	1.00	24.48	C
ATOM	8465	C	LEU	C	694	24.539	77.014	37.089	1.00	30.35	C
ATOM	8466	O	LEU	C	694	24.555	77.198	35.867	1.00	30.35	C
ATOM	8467	N	ALA	C	695	25.094	75.957	37.662	1.00	18.21	C
ATOM	8468	CA	ALA	C	695	25.739	74.948	36.864	1.00	18.21	C
ATOM	8469	CB	ALA	C	695	26.728	74.141	37.736	1.00	5.07	C
ATOM	8470	C	ALA	C	695	24.599	74.081	36.344	1.00	18.21	C
ATOM	8471	O	ALA	C	695	24.553	73.750	35.155	1.00	18.21	C
ATOM	8472	N	ALA	C	696	23.664	73.748	37.236	1.00	37.13	C
ATOM	8473	CA	ALA	C	696	22.507	72.924	36.887	1.00	37.13	C
ATOM	8474	CB	ALA	C	696	21.666	72.630	38.131	1.00	5.07	C
ATOM	8475	C	ALA	C	696	21.678	73.627	35.812	1.00	37.13	C
ATOM	8476	O	ALA	C	696	21.115	72.976	34.943	1.00	37.13	C
ATOM	8477	N	ARG	C	697	21.584	74.950	35.875	1.00	78.06	C
ATOM	8478	CA	ARG	C	697	20.881	75.688	34.830	1.00	78.06	C
ATOM	8479	CB	ARG	C	697	20.485	77.090	35.300	1.00	67.10	C
ATOM	8480	CG	ARG	C	697	19.715	77.116	36.617	1.00	67.10	C
ATOM	8481	CD	ARG	C	697	18.453	77.963	36.515	1.00	67.10	C
ATOM	8482	NE	ARG	C	697	18.659	79.355	36.904	1.00	67.10	C
ATOM	8483	CZ	ARG	C	697	18.069	80.388	36.308	1.00	67.10	C
ATOM	8484	NH1	ARG	C	697	17.239	80.186	35.280	1.00	67.10	C
ATOM	8485	NH2	ARG	C	697	18.295	81.621	36.751	1.00	67.10	C
ATOM	8486	C	ARG	C	697	22.061	75.791	33.893	1.00	78.06	C
ATOM	8487	O	ARG	C	697	23.192	75.662	34.354	1.00	78.06	C
ATOM	8488	N	ASP	C	698	21.858	75.996	32.599	1.00	49.34	C
ATOM	8489	CA	ASP	C	698	23.042	76.096	31.756	1.00	49.34	C
ATOM	8490	CB	ASP	C	698	22.773	75.619	30.332	1.00	70.47	C
ATOM	8491	CG	ASP	C	698	23.540	74.349	29.999	1.00	70.47	C
ATOM	8492	OD1	ASP	C	698	24.680	74.205	30.499	1.00	70.47	C
ATOM	8493	OD2	ASP	C	698	23.012	73.506	29.237	1.00	70.47	C
ATOM	8494	C	ASP	C	698	23.542	77.524	31.757	1.00	49.34	C
ATOM	8495	O	ASP	C	698	23.818	78.107	30.716	1.00	49.34	C
ATOM	8496	N	PHE	C	699	23.674	78.064	32.963	1.00	70.88	C
ATOM	8497	CA	PHE	C	699	24.128	79.429	33.167	1.00	70.88	C
ATOM	8498	CB	PHE	C	699	24.091	79.798	34.652	1.00	48.70	C
ATOM	8499	CG	PHE	C	699	23.152	80.930	34.968	1.00	48.70	C
ATOM	8500	CD1	PHE	C	699	21.864	80.678	35.431	1.00	48.70	C
ATOM	8501	CD2	PHE	C	699	23.554	82.250	34.793	1.00	48.70	C
ATOM	8502	CE1	PHE	C	699	20.998	81.716	35.713	1.00	48.70	C
ATOM	8503	CE2	PHE	C	699	22.692	83.291	35.073	1.00	48.70	C
ATOM	8504	CZ	PHE	C	699	21.411	83.021	35.536	1.00	48.70	C
ATOM	8505	C	PHE	C	699	25.512	79.718	32.638	1.00	70.88	C
ATOM	8506	O	PHE	C	699	25.871	79.311	31.537	1.00	70.88	C
ATOM	8507	N	TYR	C	700	26.271	80.436	33.457	1.00	47.29	C
ATOM	8508	CA	TYR	C	700	27.624	80.871	33.151	1.00	47.29	C
ATOM	8509	CB	TYR	C	700	28.431	80.951	34.451	1.00	41.89	C
ATOM	8510	CG	TYR	C	700	28.040	82.145	35.294	1.00	41.89	C
ATOM	8511	CD1	TYR	C	700	28.574	82.343	36.562	1.00	41.89	C
ATOM	8512	CE1	TYR	C	700	28.198	83.452	37.334	1.00	41.89	C
ATOM	8513	CD2	TYR	C	700	27.119	83.088	34.817	1.00	41.89	C
ATOM	8514	CE2	TYR	C	700	26.740	84.195	35.587	1.00	41.89	C
ATOM	8515	CZ	TYR	C	700	27.285	84.363	36.834	1.00	41.89	C
ATOM	8516	OH	TYR	C	700	26.914	85.447	37.572	1.00	41.89	C
ATOM	8517	C	TYR	C	700	28.421	80.138	32.081	1.00	47.29	C
ATOM	8518	O	TYR	C	700	29.404	80.686	31.579	1.00	47.29	C
ATOM	8519	N	THR	C	701	28.020	78.916	31.734	1.00	21.71	C
ATOM	8520	CA	THR	C	701	28.710	78.156	30.700	1.00	21.71	C
ATOM	8521	CB	THR	C	701	27.838	77.003	30.204	1.00	56.54	C
ATOM	8522	OG1	THR	C	701	26.583	77.513	29.742	1.00	56.54	C
ATOM	8523	CG2	THR	C	701	27.596	76.020	31.327	1.00	56.54	C
ATOM	8524	C	THR	C	701	29.072	79.063	29.512	1.00	21.71	C
ATOM	8525	O	THR	C	701	28.208	79.751	28.955	1.00	21.71	C
ATOM	8526	N	SER	C	702	30.362	79.065	29.158	1.00	45.58	C
ATOM	8527	CA	SER	C	702	30.906	79.872	28.060	1.00	45.58	C
ATOM	8528	CB	SER	C	702	31.925	80.872	28.604	1.00	89.52	C
ATOM	8529	OG	SER	C	702	32.947	80.210	29.330	1.00	89.52	C
ATOM	8530	C	SER	C	702	31.590	78.965	27.045	1.00	45.58	C

ATOM	8531	O	SER	C	702	32.369	78.085	27.428	1.00	45.58	C
ATOM	8532	N	ILE	C	703	31.315	79.189	25.759	1.00	22.39	C
ATOM	8533	CA	ILE	C	703	31.883	78.362	24.696	1.00	22.39	C
ATOM	8534	CB	ILE	C	703	30.898	78.228	23.545	1.00	67.44	C
ATOM	8535	CG2	ILE	C	703	31.615	77.685	22.327	1.00	67.44	C
ATOM	8536	CG1	ILE	C	703	29.733	77.331	23.962	1.00	67.44	C
ATOM	8537	CD	ILE	C	703	28.625	77.228	22.922	1.00	67.44	C
ATOM	8538	C	ILE	C	703	33.191	78.881	24.116	1.00	22.39	C
ATOM	8539	O	ILE	C	703	33.252	80.028	23.679	1.00	22.39	C
ATOM	8540	N	HIS	C	704	34.219	78.030	24.073	1.00	45.20	C
ATOM	8541	CA	HIS	C	704	35.522	78.431	23.537	1.00	45.20	C
ATOM	8542	CB	HIS	C	704	36.554	78.432	24.659	1.00	100.07	C
ATOM	8543	CG	HIS	C	704	36.214	79.360	25.785	1.00	100.07	C
ATOM	8544	CD2	HIS	C	704	36.807	80.500	26.213	1.00	100.07	C
ATOM	8545	ND1	HIS	C	704	35.143	79.148	26.626	1.00	100.07	C
ATOM	8546	CE1	HIS	C	704	35.093	80.116	27.527	1.00	100.07	C
ATOM	8547	NE2	HIS	C	704	36.093	80.949	27.297	1.00	100.07	C
ATOM	8548	C	HIS	C	704	36.011	77.590	22.337	1.00	45.20	C
ATOM	8549	O	HIS	C	704	35.769	76.387	22.260	1.00	45.20	C
ATOM	8550	N	ILE	C	705	36.730	78.237	21.420	1.00	15.98	C
ATOM	8551	CA	ILE	C	705	37.191	77.603	20.191	1.00	15.98	C
ATOM	8552	CB	ILE	C	705	36.301	78.039	19.052	1.00	14.22	C
ATOM	8553	CG2	ILE	C	705	36.793	77.477	17.763	1.00	14.22	C
ATOM	8554	CG1	ILE	C	705	34.877	77.633	19.321	1.00	14.22	C
ATOM	8555	CD	ILE	C	705	33.946	78.211	18.296	1.00	14.22	C
ATOM	8556	C	ILE	C	705	38.601	77.953	19.719	1.00	15.98	C
ATOM	8557	O	ILE	C	705	38.815	79.066	19.224	1.00	15.98	C
ATOM	8558	N	GLU	C	706	39.561	77.039	19.808	1.00	60.09	C
ATOM	8559	CA	GLU	C	706	40.865	77.411	19.288	1.00	60.09	C
ATOM	8560	CB	GLU	C	706	41.907	77.489	20.387	1.00	99.45	C
ATOM	8561	CG	GLU	C	706	42.925	78.553	20.032	1.00	99.45	C
ATOM	8562	CD	GLU	C	706	42.359	79.560	19.022	1.00	99.45	C
ATOM	8563	OE1	GLU	C	706	41.317	80.195	19.306	1.00	99.45	C
ATOM	8564	OE2	GLU	C	706	42.951	79.707	17.934	1.00	99.45	C
ATOM	8565	C	GLU	C	706	41.354	76.526	18.160	1.00	60.09	C
ATOM	8566	O	GLU	C	706	40.903	75.398	18.042	1.00	60.09	C
ATOM	8567	N	ARG	C	707	42.263	77.045	17.327	1.00	49.03	C
ATOM	8568	CA	ARG	C	707	42.787	76.300	16.175	1.00	49.03	C
ATOM	8569	CB	ARG	C	707	42.993	77.238	14.990	1.00	93.56	C
ATOM	8570	CG	ARG	C	707	43.782	78.489	15.307	1.00	93.56	C
ATOM	8571	CD	ARG	C	707	43.374	79.616	14.358	1.00	93.56	C
ATOM	8572	NE	ARG	C	707	43.814	80.938	14.805	1.00	93.56	C
ATOM	8573	CZ	ARG	C	707	43.295	82.087	14.374	1.00	93.56	C
ATOM	8574	NH1	ARG	C	707	42.313	82.091	13.481	1.00	93.56	C
ATOM	8575	NH2	ARG	C	707	43.747	83.239	14.853	1.00	93.56	C
ATOM	8576	C	ARG	C	707	44.072	75.539	16.434	1.00	49.03	C
ATOM	8577	O	ARG	C	707	44.622	75.604	17.525	1.00	49.03	C
ATOM	8578	N	TYR	C	708	44.532	74.804	15.425	1.00	37.77	C
ATOM	8579	CA	TYR	C	708	45.756	74.014	15.512	1.00	37.77	C
ATOM	8580	CB	TYR	C	708	45.440	72.598	15.963	1.00	25.12	C
ATOM	8581	CG	TYR	C	708	45.123	72.493	17.427	1.00	25.12	C
ATOM	8582	CD1	TYR	C	708	43.815	72.342	17.872	1.00	25.12	C
ATOM	8583	CE1	TYR	C	708	43.518	72.323	19.227	1.00	25.12	C
ATOM	8584	CD2	TYR	C	708	46.127	72.613	18.372	1.00	25.12	C
ATOM	8585	CE2	TYR	C	708	45.843	72.598	19.721	1.00	25.12	C
ATOM	8586	CZ	TYR	C	708	44.539	72.461	20.150	1.00	25.12	C
ATOM	8587	OH	TYR	C	708	44.264	72.536	21.507	1.00	25.12	C
ATOM	8588	C	TYR	C	708	46.403	73.949	14.142	1.00	37.77	C
ATOM	8589	O	TYR	C	708	45.719	73.655	13.154	1.00	37.77	C
ATOM	8590	N	GLU	C	709	47.709	74.201	14.065	1.00	45.83	C
ATOM	8591	CA	GLU	C	709	48.404	74.179	12.773	1.00	45.83	C
ATOM	8592	CB	GLU	C	709	49.109	75.510	12.522	1.00	77.60	C
ATOM	8593	CG	GLU	C	709	48.216	76.646	12.101	1.00	77.60	C
ATOM	8594	CD	GLU	C	709	48.921	77.589	11.134	1.00	77.60	C
ATOM	8595	OE1	GLU	C	709	50.074	77.990	11.427	1.00	77.60	C
ATOM	8596	OE2	GLU	C	709	48.324	77.927	10.083	1.00	77.60	C
ATOM	8597	C	GLU	C	709	49.442	73.081	12.603	1.00	45.83	C
ATOM	8598	O	GLU	C	709	50.160	72.761	13.544	1.00	45.83	C
ATOM	8599	N	ILE	C	710	49.522	72.516	11.398	1.00	21.14	C
ATOM	8600	CA	ILE	C	710	50.517	71.487	11.070	1.00	21.14	C
ATOM	8601	CB	ILE	C	710	49.935	70.077	10.971	1.00	43.13	C
ATOM	8602	CG2	ILE	C	710	51.075	69.065	10.953	1.00	43.13	C
ATOM	8603	CG1	ILE	C	710	48.943	69.823	12.117	1.00	43.13	C
ATOM	8604	CD	ILE	C	710	49.473	69.976	13.553	1.00	43.13	C
ATOM	8605	C	ILE	C	710	51.067	71.822	9.697	1.00	21.14	C
ATOM	8606	O	ILE	C	710	50.306	71.986	8.732	1.00	21.14	C
ATOM	8607	N	GLU	C	711	52.389	71.930	9.610	1.00	56.98	C
ATOM	8608	CA	GLU	C	711	53.037	72.268	8.353	1.00	56.98	C
ATOM	8609	CB	GLU	C	711	54.179	73.256	8.616	1.00	84.91	C
ATOM	8610	CG	GLU	C	711	53.672	74.550	9.240	1.00	84.91	C
ATOM	8611	CD	GLU	C	711	54.765	75.544	9.583	1.00	84.91	C
ATOM	8612	OE1	GLU	C	711	55.392	76.097	8.656	1.00	84.91	C
ATOM	8613	OE2	GLU	C	711	54.988	75.777	10.790	1.00	84.91	C
ATOM	8614	C	GLU	C	711	53.546	71.031	7.623	1.00	56.98	C

ATOM	8615	O	GLU	C	711	53.816	70.004	8.247	1.00	56.98	C
ATOM	8616	N	ALA	C	712	53.638	71.136	6.297	1.00	41.22	C
ATOM	8617	CA	ALA	C	712	54.129	70.060	5.436	1.00	41.22	C
ATOM	8618	CB	ALA	C	712	53.034	69.613	4.481	1.00	85.63	C
ATOM	8619	C	ALA	C	712	55.338	70.596	4.661	1.00	41.22	C
ATOM	8620	O	ALA	C	712	55.215	71.100	3.542	1.00	41.22	C
ATOM	8621	N	ARG	C	713	56.507	70.487	5.284	1.00	58.37	C
ATOM	8622	CA	ARG	C	713	57.761	70.966	4.717	1.00	58.37	C
ATOM	8623	CB	ARG	C	713	58.882	70.792	5.744	1.00	99.84	C
ATOM	8624	CG	ARG	C	713	58.633	71.525	7.061	1.00	99.84	C
ATOM	8625	CD	ARG	C	713	58.850	73.031	6.919	1.00	99.84	C
ATOM	8626	NE	ARG	C	713	58.432	73.782	8.107	1.00	99.84	C
ATOM	8627	CZ	ARG	C	713	58.703	75.072	8.323	1.00	99.84	C
ATOM	8628	NH1	ARG	C	713	59.403	75.767	7.434	1.00	99.84	C
ATOM	8629	NH2	ARG	C	713	58.258	75.677	9.420	1.00	99.84	C
ATOM	8630	C	ARG	C	713	58.147	70.292	3.402	1.00	58.37	C
ATOM	8631	O	ARG	C	713	57.289	69.784	2.667	1.00	58.37	C
ATOM	8632	N	ASP	C	714	59.448	70.292	3.117	1.00	68.42	C
ATOM	8633	CA	ASP	C	714	59.961	69.711	1.884	1.00	68.42	C
ATOM	8634	CB	ASP	C	714	59.791	70.729	0.751	1.00	80.11	C
ATOM	8635	CG	ASP	C	714	59.750	70.087	-0.622	1.00	80.11	C
ATOM	8636	OD1	ASP	C	714	60.800	69.587	-1.072	1.00	80.11	C
ATOM	8637	OD2	ASP	C	714	58.666	70.084	-1.250	1.00	80.11	C
ATOM	8638	C	ASP	C	714	61.436	69.369	2.065	1.00	68.42	C
ATOM	8639	O	ASP	C	714	62.166	69.219	1.093	1.00	68.42	C
ATOM	8640	N	ALA	C	715	61.853	69.235	3.321	1.00	42.90	C
ATOM	8641	CA	ALA	C	715	63.243	68.939	3.691	1.00	42.90	C
ATOM	8642	CB	ALA	C	715	63.294	68.439	5.119	1.00	50.27	C
ATOM	8643	C	ALA	C	715	64.015	67.982	2.789	1.00	42.90	C
ATOM	8644	O	ALA	C	715	63.434	67.259	1.984	1.00	42.90	C
ATOM	8645	N	ALA	C	716	65.335	67.981	2.962	1.00	88.79	C
ATOM	8646	CA	ALA	C	716	66.264	67.162	2.186	1.00	88.79	C
ATOM	8647	CB	ALA	C	716	67.684	67.451	2.632	1.00	100.07	C
ATOM	8648	C	ALA	C	716	66.042	65.656	2.177	1.00	88.79	C
ATOM	8649	O	ALA	C	716	66.296	65.007	1.173	1.00	88.79	C
ATOM	8650	N	LEU	C	717	65.595	65.090	3.289	1.00	39.98	C
ATOM	8651	CA	LEU	C	717	65.367	63.650	3.349	1.00	39.98	C
ATOM	8652	CB	LEU	C	717	65.426	63.187	4.795	1.00	76.08	C
ATOM	8653	CG	LEU	C	717	66.660	63.744	5.484	1.00	81.83	C
ATOM	8654	CD1	LEU	C	717	66.716	63.226	6.896	1.00	81.83	C
ATOM	8655	CD2	LEU	C	717	67.898	63.364	4.690	1.00	81.83	C
ATOM	8656	C	LEU	C	717	64.024	63.235	2.732	1.00	39.98	C
ATOM	8657	O	LEU	C	717	63.399	62.264	3.163	1.00	39.98	C
ATOM	8658	N	GLY	C	718	63.586	63.972	1.719	1.00	79.48	C
ATOM	8659	CA	GLY	C	718	62.323	63.656	1.079	1.00	79.48	C
ATOM	8660	C	GLY	C	718	61.206	64.576	1.526	1.00	79.48	C
ATOM	8661	O	GLY	C	718	61.352	65.301	2.506	1.00	79.48	C
ATOM	8662	N	PRO	C	719	60.067	64.564	0.822	1.00	23.76	C
ATOM	8663	CD	PRO	C	719	59.891	63.891	-0.472	1.00	98.16	C
ATOM	8664	CA	PRO	C	719	58.900	65.391	1.120	1.00	23.76	C
ATOM	8665	CB	PRO	C	719	58.102	65.333	-0.177	1.00	92.41	C
ATOM	8666	CG	PRO	C	719	58.398	63.973	-0.672	1.00	98.16	C
ATOM	8667	C	PRO	C	719	58.054	64.971	2.313	1.00	23.76	C
ATOM	8668	O	PRO	C	719	57.677	63.809	2.448	1.00	23.76	C
ATOM	8669	N	GLU	C	720	57.743	65.939	3.169	1.00	52.29	C
ATOM	8670	CA	GLU	C	720	56.905	65.702	4.331	1.00	52.29	C
ATOM	8671	CB	GLU	C	720	57.114	66.826	5.342	1.00	72.46	C
ATOM	8672	CG	GLU	C	720	56.463	66.580	6.673	1.00	76.24	C
ATOM	8673	CD	GLU	C	720	57.469	66.576	7.798	1.00	76.24	C
ATOM	8674	OE1	GLU	C	720	58.039	67.653	8.077	1.00	76.24	C
ATOM	8675	OE2	GLU	C	720	57.700	65.501	8.394	1.00	76.24	C
ATOM	8676	C	GLU	C	720	55.470	65.724	3.794	1.00	52.29	C
ATOM	8677	O	GLU	C	720	55.026	66.738	3.256	1.00	52.29	C
ATOM	8678	N	ARG	C	721	54.748	64.614	3.920	1.00	29.36	C
ATOM	8679	CA	ARG	C	721	53.370	64.548	3.413	1.00	29.36	C
ATOM	8680	CB	ARG	C	721	53.325	63.548	2.257	1.00	100.07	C
ATOM	8681	CG	ARG	C	721	54.254	62.364	2.471	1.00	100.07	C
ATOM	8682	CD	ARG	C	721	54.414	61.509	1.225	1.00	100.07	C
ATOM	8683	NE	ARG	C	721	55.261	60.352	1.502	1.00	100.07	C
ATOM	8684	CZ	ARG	C	721	55.579	59.426	0.605	1.00	100.07	C
ATOM	8685	NH1	ARG	C	721	55.118	59.526	-0.636	1.00	100.07	C
ATOM	8686	NH2	ARG	C	721	56.347	58.395	0.949	1.00	100.07	C
ATOM	8687	C	ARG	C	721	52.287	64.213	4.469	1.00	29.36	C
ATOM	8688	O	ARG	C	721	52.589	63.688	5.545	1.00	29.36	C
ATOM	8689	N	ILE	C	722	51.028	64.524	4.155	1.00	94.25	C
ATOM	8690	CA	ILE	C	722	49.914	64.281	5.075	1.00	94.25	C
ATOM	8691	CB	ILE	C	722	48.942	65.455	5.068	1.00	50.71	C
ATOM	8692	CG2	ILE	C	722	47.901	65.249	6.118	1.00	56.46	C
ATOM	8693	CG1	ILE	C	722	49.684	66.758	5.320	1.00	56.46	C
ATOM	8694	CD	ILE	C	722	50.429	66.777	6.606	1.00	96.64	C
ATOM	8695	C	ILE	C	722	49.096	63.039	4.737	1.00	94.25	C
ATOM	8696	O	ILE	C	722	48.291	63.066	3.803	1.00	94.25	C
ATOM	8697	N	THR	C	723	49.262	61.970	5.513	1.00	43.74	C
ATOM	8698	CA	THR	C	723	48.533	60.734	5.236	1.00	43.74	C

ATOM	8699	CB	THR	C	723	49.460	59.607	4.797	1.00100.07	C
ATOM	8700	OG1	THR	C	723	50.769	60.127	4.545	1.00100.07	C
ATOM	8701	CG2	THR	C	723	48.917	58.945	3.546	1.00100.07	C
ATOM	8702	C	THR	C	723	47.776	60.173	6.391	1.00 43.74	C
ATOM	8703	O	THR	C	723	48.185	60.305	7.534	1.00 43.74	C
ATOM	8704	N	ALA	C	724	46.656	59.539	6.080	1.00 50.34	C
ATOM	8705	CA	ALA	C	724	45.863	58.890	7.102	1.00 50.34	C
ATOM	8706	CB	ALA	C	724	44.413	58.712	6.636	1.00 50.32	C
ATOM	8707	C	ALA	C	724	46.568	57.544	7.218	1.00 50.34	C
ATOM	8708	O	ALA	C	724	46.122	56.627	7.912	1.00 50.34	C
ATOM	8709	N	ASP	C	725	47.696	57.459	6.518	1.00 53.08	C
ATOM	8710	CA	ASP	C	725	48.536	56.277	6.467	1.00 53.08	C
ATOM	8711	CB	ASP	C	725	49.102	56.129	5.048	1.00100.07	C
ATOM	8712	CG	ASP	C	725	50.033	54.938	4.903	1.00100.07	C
ATOM	8713	OD1	ASP	C	725	49.561	53.796	5.102	1.00100.07	C
ATOM	8714	OD2	ASP	C	725	51.234	55.132	4.594	1.00100.07	C
ATOM	8715	C	ASP	C	725	49.691	56.361	7.463	1.00 53.08	C
ATOM	8716	O	ASP	C	725	50.802	55.937	7.169	1.00 53.08	C
ATOM	8717	N	ILE	C	726	49.452	56.921	8.639	1.00 48.00	C
ATOM	8718	CA	ILE	C	726	50.516	57.025	9.628	1.00 48.00	C
ATOM	8719	CB	ILE	C	726	49.974	57.672	10.901	1.00 93.84	C
ATOM	8720	CG2	ILE	C	726	50.552	56.995	12.117	1.00 99.59	C
ATOM	8721	CG1	ILE	C	726	50.266	59.173	10.860	1.00 99.59	C
ATOM	8722	CD	ILE	C	726	49.790	59.971	12.079	1.00100.07	C
ATOM	8723	C	ILE	C	726	51.101	55.633	9.904	1.00 48.00	C
ATOM	8724	O	ILE	C	726	50.374	54.640	9.985	1.00 48.00	C
ATOM	8725	N	PRO	C	727	52.425	55.545	10.053	1.00 42.25	C
ATOM	8726	CD	PRO	C	727	53.347	56.684	10.162	1.00 89.60	C
ATOM	8727	CA	PRO	C	727	53.131	54.286	10.306	1.00 42.25	C
ATOM	8728	CB	PRO	C	727	54.587	54.734	10.399	1.00100.07	C
ATOM	8729	CG	PRO	C	727	54.460	56.102	10.995	1.00 89.60	C
ATOM	8730	C	PRO	C	727	52.707	53.393	11.493	1.00 42.25	C
ATOM	8731	O	PRO	C	727	51.525	53.315	11.844	1.00 42.25	C
ATOM	8732	N	HIS	C	728	53.694	52.700	12.066	1.00 99.61	C
ATOM	8733	CA	HIS	C	728	53.512	51.773	13.182	1.00 99.61	C
ATOM	8734	CB	HIS	C	728	54.689	51.886	14.151	1.00100.07	C
ATOM	8735	CG	HIS	C	728	56.011	51.538	13.541	1.00100.07	C
ATOM	8736	CD2	HIS	C	728	57.214	52.156	13.596	1.00100.07	C
ATOM	8737	ND1	HIS	C	728	56.205	50.392	12.798	1.00100.07	C
ATOM	8738	CE1	HIS	C	728	57.474	50.326	12.421	1.00100.07	C
ATOM	8739	NE2	HIS	C	728	58.104	51.385	12.896	1.00100.07	C
ATOM	8740	C	HIS	C	728	52.209	51.944	13.941	1.00 99.61	C
ATOM	8741	O	HIS	C	728	51.412	51.015	14.043	1.00 99.61	C
ATOM	8742	N	ALA	C	729	51.998	53.141	14.483	1.00100.04	C
ATOM	8743	CA	ALA	C	729	50.775	53.438	15.231	1.00100.04	C
ATOM	8744	CB	ALA	C	729	50.808	54.870	15.754	1.00100.07	C
ATOM	8745	C	ALA	C	729	49.558	53.247	14.343	1.00100.04	C
ATOM	8746	O	ALA	C	729	48.578	53.977	14.446	1.00100.04	C
ATOM	8747	N	ALA	C	730	49.646	52.266	13.453	1.00100.07	C
ATOM	8748	CA	ALA	C	730	48.580	51.963	12.524	1.00100.07	C
ATOM	8749	CB	ALA	C	730	49.024	50.880	11.571	1.00100.07	C
ATOM	8750	C	ALA	C	730	47.324	51.535	13.276	1.00100.07	C
ATOM	8751	O	ALA	C	730	46.266	51.364	12.685	1.00100.07	C
ATOM	8752	N	GLU	C	731	47.454	51.373	14.589	1.00 61.05	C
ATOM	8753	CA	GLU	C	731	46.358	50.965	15.472	1.00 61.05	C
ATOM	8754	CB	GLU	C	731	46.572	51.602	16.847	1.00100.07	C
ATOM	8755	CG	GLU	C	731	46.024	50.809	18.005	1.00100.07	C
ATOM	8756	CD	GLU	C	731	47.123	50.340	18.945	1.00100.07	C
ATOM	8757	OE1	GLU	C	731	47.665	51.174	19.707	1.00100.07	C
ATOM	8758	OE2	GLU	C	731	47.456	49.131	18.912	1.00100.07	C
ATOM	8759	C	GLU	C	731	45.005	51.376	14.916	1.00 61.05	C
ATOM	8760	O	GLU	C	731	44.914	52.382	14.224	1.00 61.05	C
ATOM	8761	N	ALA	C	732	43.957	50.628	15.223	1.00100.07	C
ATOM	8762	CA	ALA	C	732	42.623	50.953	14.709	1.00100.07	C
ATOM	8763	CB	ALA	C	732	41.683	49.751	14.917	1.00 79.24	C
ATOM	8764	C	ALA	C	732	42.037	52.212	15.354	1.00100.07	C
ATOM	8765	O	ALA	C	732	40.864	52.254	15.711	1.00100.07	C
ATOM	8766	N	ALA	C	733	42.860	53.233	15.518	1.00 80.09	C
ATOM	8767	CA	ALA	C	733	42.421	54.478	16.127	1.00 80.09	C
ATOM	8768	CB	ALA	C	733	43.222	54.764	17.379	1.00100.07	C
ATOM	8769	C	ALA	C	733	42.633	55.581	15.118	1.00 80.09	C
ATOM	8770	O	ALA	C	733	41.900	56.560	15.086	1.00 80.09	C
ATOM	8771	N	LEU	C	734	43.653	55.419	14.289	1.00 48.09	C
ATOM	8772	CA	LEU	C	734	43.935	56.410	13.257	1.00 48.09	C
ATOM	8773	CB	LEU	C	734	45.040	55.915	12.318	1.00100.07	C
ATOM	8774	CG	LEU	C	734	46.317	55.365	12.942	1.00100.07	C
ATOM	8775	CD1	LEU	C	734	47.075	54.626	11.852	1.00100.07	C
ATOM	8776	CD2	LEU	C	734	47.182	56.491	13.542	1.00100.07	C
ATOM	8777	C	LEU	C	734	42.663	56.621	12.448	1.00 48.09	C
ATOM	8778	O	LEU	C	734	41.776	57.383	12.840	1.00 48.09	C
ATOM	8779	N	ARG	C	735	42.590	55.924	11.317	1.00100.07	C
ATOM	8780	CA	ARG	C	735	41.436	55.990	10.434	1.00100.07	C
ATOM	8781	CB	ARG	C	735	41.520	54.876	9.365	1.00100.07	C
ATOM	8782	CG	ARG	C	735	42.741	54.972	8.414	1.00100.07	C

ATOM	8867	O	ALA	C	747	35.763	66.020	17.591	1.00	55.00	C
ATOM	8868	N	GLU	C	748	34.589	64.270	18.377	1.00	20.56	C
ATOM	8869	CA	GLU	C	748	34.923	64.553	19.767	1.00	20.56	C
ATOM	8870	CB	GLU	C	748	33.974	63.782	20.687	1.00	57.88	C
ATOM	8871	CG	GLU	C	748	34.306	63.851	22.156	1.00	57.88	C
ATOM	8872	CD	GLU	C	748	35.313	62.802	22.565	1.00	57.88	C
ATOM	8873	OE1	GLU	C	748	35.630	62.725	23.767	1.00	57.88	C
ATOM	8874	OE2	GLU	C	748	35.787	62.047	21.689	1.00	57.88	C
ATOM	8875	C	GLU	C	748	36.385	64.130	19.959	1.00	20.56	C
ATOM	8876	O	GLU	C	748	36.742	62.985	19.702	1.00	20.56	C
ATOM	8877	N	VAL	C	749	37.223	65.068	20.400	1.00	40.79	C
ATOM	8878	CA	VAL	C	749	38.663	64.844	20.566	1.00	40.79	C
ATOM	8879	CB	VAL	C	749	39.437	65.824	19.728	1.00	14.31	C
ATOM	8880	CG1	VAL	C	749	40.899	65.652	19.996	1.00	14.31	C
ATOM	8881	CG2	VAL	C	749	39.078	65.652	18.262	1.00	14.31	C
ATOM	8882	C	VAL	C	749	39.240	64.983	21.963	1.00	40.79	C
ATOM	8883	O	VAL	C	749	39.147	66.050	22.569	1.00	40.79	C
ATOM	8884	N	LYS	C	750	39.891	63.925	22.440	1.00	31.19	C
ATOM	8885	CA	LYS	C	750	40.512	63.899	23.773	1.00	31.19	C
ATOM	8886	CB	LYS	C	750	40.345	62.511	24.401	1.00	99.75	C
ATOM	8887	CG	LYS	C	750	39.318	61.629	23.698	1.00	99.75	C
ATOM	8888	CD	LYS	C	750	39.797	60.179	23.585	1.00	99.75	C
ATOM	8889	CE	LYS	C	750	38.861	59.333	22.726	1.00	99.75	C
ATOM	8890	NZ	LYS	C	750	39.316	57.916	22.630	1.00	99.75	C
ATOM	8891	C	LYS	C	750	41.999	64.184	23.561	1.00	31.19	C
ATOM	8892	O	LYS	C	750	42.495	64.089	22.443	1.00	31.19	C
ATOM	8893	N	PRO	C	751	42.735	64.520	24.627	1.00	51.92	C
ATOM	8894	CD	PRO	C	751	42.445	64.330	26.057	1.00	76.09	C
ATOM	8895	CA	PRO	C	751	44.157	64.799	24.435	1.00	51.92	C
ATOM	8896	CB	PRO	C	751	44.612	65.182	25.831	1.00	76.09	C
ATOM	8897	CG	PRO	C	751	43.839	64.232	26.664	1.00	76.09	C
ATOM	8898	C	PRO	C	751	44.842	63.540	23.945	1.00	51.92	C
ATOM	8899	O	PRO	C	751	44.493	62.439	24.379	1.00	51.92	C
ATOM	8900	N	GLY	C	752	45.813	63.696	23.052	1.00	71.81	C
ATOM	8901	CA	GLY	C	752	46.512	62.538	22.530	1.00	71.81	C
ATOM	8902	C	GLY	C	752	46.007	62.142	21.155	1.00	71.81	C
ATOM	8903	O	GLY	C	752	46.794	62.040	20.214	1.00	71.81	C
ATOM	8904	N	ASP	C	753	44.700	61.920	21.033	1.00	39.11	C
ATOM	8905	CA	ASP	C	753	44.095	61.540	19.758	1.00	39.11	C
ATOM	8906	CB	ASP	C	753	42.607	61.923	19.743	1.00	68.10	C
ATOM	8907	CG	ASP	C	753	41.815	61.300	20.893	1.00	68.10	C
ATOM	8908	OD1	ASP	C	753	40.573	61.464	20.911	1.00	68.10	C
ATOM	8909	OD2	ASP	C	753	42.424	60.656	21.774	1.00	68.10	C
ATOM	8910	C	ASP	C	753	44.813	62.224	18.581	1.00	39.11	C
ATOM	8911	O	ASP	C	753	45.092	63.425	18.619	1.00	39.11	C
ATOM	8912	N	ILE	C	754	45.113	61.454	17.537	1.00	41.60	C
ATOM	8913	CA	ILE	C	754	45.814	61.980	16.362	1.00	41.60	C
ATOM	8914	CB	ILE	C	754	46.086	60.853	15.336	1.00	54.36	C
ATOM	8915	CG2	ILE	C	754	47.123	61.297	14.333	1.00	54.36	C
ATOM	8916	CG1	ILE	C	754	46.586	59.598	16.053	1.00	54.36	C
ATOM	8917	CD	ILE	C	754	47.856	59.798	16.872	1.00	54.36	C
ATOM	8918	C	ILE	C	754	44.987	63.069	15.688	1.00	41.60	C
ATOM	8919	O	ILE	C	754	44.251	62.797	14.752	1.00	41.60	C
ATOM	8920	N	LEU	C	755	45.109	64.304	16.160	1.00	11.80	C
ATOM	8921	CA	LEU	C	755	44.338	65.410	15.589	1.00	11.80	C
ATOM	8922	CB	LEU	C	755	44.839	66.744	16.140	1.00	51.18	C
ATOM	8923	CG	LEU	C	755	43.886	67.928	16.001	1.00	51.18	C
ATOM	8924	CD1	LEU	C	755	43.545	68.176	14.544	1.00	51.18	C
ATOM	8925	CD2	LEU	C	755	42.634	67.635	16.799	1.00	51.18	C
ATOM	8926	C	LEU	C	755	44.456	65.418	14.080	1.00	11.80	C
ATOM	8927	O	LEU	C	755	43.465	65.547	13.386	1.00	11.80	C
ATOM	8928	N	VAL	C	756	45.691	65.318	13.603	1.00	62.68	C
ATOM	8929	CA	VAL	C	756	46.035	65.268	12.183	1.00	62.68	C
ATOM	8930	CB	VAL	C	756	46.447	66.638	11.628	1.00	5.07	C
ATOM	8931	CG1	VAL	C	756	47.100	66.509	10.256	1.00	5.07	C
ATOM	8932	CG2	VAL	C	756	45.221	67.517	11.545	1.00	5.07	C
ATOM	8933	C	VAL	C	756	47.234	64.350	12.172	1.00	62.68	C
ATOM	8934	O	VAL	C	756	47.608	63.832	13.225	1.00	62.68	C
ATOM	8935	N	GLY	C	757	47.843	64.131	11.015	1.00	37.71	C
ATOM	8936	CA	GLY	C	757	48.997	63.259	11.003	1.00	37.71	C
ATOM	8937	C	GLY	C	757	49.795	63.315	9.730	1.00	37.71	C
ATOM	8938	O	GLY	C	757	49.238	63.477	8.643	1.00	37.71	C
ATOM	8939	N	ARG	C	758	51.114	63.212	9.867	1.00	26.61	C
ATOM	8940	CA	ARG	C	758	51.989	63.191	8.700	1.00	26.61	C
ATOM	8941	CB	ARG	C	758	52.266	64.605	8.174	1.00	41.79	C
ATOM	8942	CG	ARG	C	758	53.357	65.337	8.879	1.00	41.79	C
ATOM	8943	CD	ARG	C	758	52.865	65.913	10.171	1.00	41.79	C
ATOM	8944	NE	ARG	C	758	53.909	66.693	10.822	1.00	41.79	C
ATOM	8945	CZ	ARG	C	758	54.637	67.606	10.198	1.00	41.79	C
ATOM	8946	NH1	ARG	C	758	54.434	67.846	8.912	1.00	41.79	C
ATOM	8947	NH2	ARG	C	758	55.562	68.276	10.860	1.00	41.79	C
ATOM	8948	C	ARG	C	758	53.294	62.453	9.014	1.00	26.61	C
ATOM	8949	O	ARG	C	758	53.518	62.009	10.145	1.00	26.61	C
ATOM	8950	N	THR	C	759	54.145	62.308	8.005	1.00	62.22	C

ATOM	8951	CA	THR	C	759	55.391	61.594	8.197	1.00	62.22	C
ATOM	8952	CB	THR	C	759	55.285	60.171	7.655	1.00	75.33	C
ATOM	8953	OG1	THR	C	759	56.565	59.535	7.760	1.00	75.33	C
ATOM	8954	CG2	THR	C	759	54.833	60.190	6.193	1.00	75.33	C
ATOM	8955	C	THR	C	759	56.632	62.219	7.578	1.00	62.22	C
ATOM	8956	O	THR	C	759	56.592	62.767	6.474	1.00	62.22	C
ATOM	8957	N	SER	C	760	57.736	62.111	8.309	1.00	100.06	C
ATOM	8958	CA	SER	C	760	59.032	62.611	7.878	1.00	100.06	C
ATOM	8959	CB	SER	C	760	59.641	63.501	8.964	1.00	57.66	C
ATOM	8960	OG	SER	C	760	60.934	63.954	8.596	1.00	57.66	C
ATOM	8961	C	SER	C	760	59.891	61.365	7.664	1.00	100.06	C
ATOM	8962	O	SER	C	760	59.889	60.460	8.502	1.00	100.06	C
ATOM	8963	N	PHE	C	761	60.614	61.312	6.546	1.00	19.65	C
ATOM	8964	CA	PHE	C	761	61.449	60.151	6.238	1.00	19.65	C
ATOM	8965	CB	PHE	C	761	62.065	60.286	4.846	1.00	64.09	C
ATOM	8966	CG	PHE	C	761	61.064	60.404	3.744	1.00	64.09	C
ATOM	8967	CD1	PHE	C	761	60.578	61.647	3.360	1.00	64.09	C
ATOM	8968	CD2	PHE	C	761	60.612	59.270	3.080	1.00	64.09	C
ATOM	8969	CE1	PHE	C	761	59.657	61.759	2.327	1.00	64.09	C
ATOM	8970	CE2	PHE	C	761	59.689	59.368	2.044	1.00	64.09	C
ATOM	8971	CZ	PHE	C	761	59.210	60.614	1.665	1.00	64.09	C
ATOM	8972	C	PHE	C	761	62.573	59.870	7.239	1.00	19.65	C
ATOM	8973	O	PHE	C	761	62.848	58.709	7.544	1.00	19.65	C
ATOM	8974	N	LYS	C	762	63.213	60.934	7.725	1.00	68.08	C
ATOM	8975	CA	LYS	C	762	64.326	60.842	8.672	1.00	68.08	C
ATOM	8976	CB	LYS	C	762	63.854	61.093	10.111	1.00	70.03	C
ATOM	8977	CG	LYS	C	762	63.351	62.504	10.408	1.00	70.03	C
ATOM	8978	CD	LYS	C	762	63.369	62.783	11.914	1.00	70.03	C
ATOM	8979	CE	LYS	C	762	62.080	63.432	12.393	1.00	70.03	C
ATOM	8980	NZ	LYS	C	762	60.919	62.500	12.312	1.00	70.03	C
ATOM	8981	C	LYS	C	762	65.037	59.496	8.619	1.00	68.08	C
ATOM	8982	O	LYS	C	762	64.486	58.480	9.044	1.00	68.08	C
ATOM	8983	N	GLY	C	763	66.268	59.491	8.114	1.00	34.35	C
ATOM	8984	CA	GLY	C	763	67.006	58.244	8.024	1.00	34.35	C
ATOM	8985	C	GLY	C	763	68.279	58.187	8.839	1.00	34.35	C
ATOM	8986	O	GLY	C	763	69.294	57.725	8.335	1.00	34.35	C
ATOM	8987	N	GLU	C	764	68.222	58.627	10.095	1.00	100.04	C
ATOM	8988	CA	GLU	C	764	69.389	58.632	10.986	1.00	100.04	C
ATOM	8989	CB	GLU	C	764	68.971	58.866	12.448	1.00	100.07	C
ATOM	8990	CG	GLU	C	764	68.110	60.104	12.728	1.00	100.07	C
ATOM	8991	CD	GLU	C	764	66.668	59.962	12.242	1.00	100.07	C
ATOM	8992	OE1	GLU	C	764	66.406	60.235	11.050	1.00	100.07	C
ATOM	8993	OE2	GLU	C	764	65.800	59.568	13.053	1.00	100.07	C
ATOM	8994	C	GLU	C	764	70.207	57.340	10.929	1.00	100.04	C
ATOM	8995	O	GLU	C	764	71.391	57.343	11.271	1.00	100.04	C
ATOM	8996	N	GLN	C	765	69.572	56.244	10.513	1.00	88.05	C
ATOM	8997	CA	GLN	C	765	70.240	54.946	10.421	1.00	88.05	C
ATOM	8998	CB	GLN	C	765	70.082	54.182	11.734	1.00	100.07	C
ATOM	8999	CG	GLN	C	765	70.803	54.838	12.897	1.00	100.07	C
ATOM	9000	CD	GLN	C	765	70.537	54.154	14.225	1.00	100.07	C
ATOM	9001	OE1	GLN	C	765	70.681	52.934	14.349	1.00	100.07	C
ATOM	9002	NE2	GLN	C	765	70.158	54.941	15.232	1.00	100.07	C
ATOM	9003	C	GLN	C	765	69.714	54.094	9.274	1.00	88.05	C
ATOM	9004	O	GLN	C	765	68.770	54.480	8.581	1.00	88.05	C
ATOM	9005	N	GLU	C	766	70.338	52.934	9.085	1.00	100.07	C
ATOM	9006	CA	GLU	C	766	69.964	51.995	8.028	1.00	100.07	C
ATOM	9007	CB	GLU	C	766	70.875	52.189	6.815	1.00	99.76	C
ATOM	9008	CG	GLU	C	766	70.973	53.643	6.359	1.00	99.76	C
ATOM	9009	CD	GLU	C	766	71.499	53.793	4.942	1.00	99.76	C
ATOM	9010	OE1	GLU	C	766	71.672	54.948	4.497	1.00	99.76	C
ATOM	9011	OE2	GLU	C	766	71.731	52.762	4.273	1.00	99.76	C
ATOM	9012	C	GLU	C	766	70.100	50.572	8.568	1.00	100.07	C
ATOM	9013	O	GLU	C	766	71.176	50.181	9.027	1.00	100.07	C
ATOM	9014	N	PRO	C	767	69.019	49.767	8.490	1.00	98.58	C
ATOM	9015	CD	PRO	C	767	67.808	49.957	7.672	1.00	32.75	C
ATOM	9016	CA	PRO	C	767	69.087	48.394	9.008	1.00	98.58	C
ATOM	9017	CB	PRO	C	767	67.760	47.766	8.555	1.00	32.75	C
ATOM	9018	CG	PRO	C	767	67.411	48.524	7.338	1.00	32.75	C
ATOM	9019	C	PRO	C	767	70.289	47.564	8.599	1.00	98.58	C
ATOM	9020	O	PRO	C	767	70.335	47.023	7.496	1.00	98.58	C
ATOM	9021	N	SER	C	768	71.270	47.484	9.495	1.00	27.79	C
ATOM	9022	CA	SER	C	768	72.448	46.669	9.247	1.00	27.79	C
ATOM	9023	CB	SER	C	768	73.363	46.679	10.466	1.00	46.09	C
ATOM	9024	OG	SER	C	768	72.821	45.857	11.485	1.00	46.09	C
ATOM	9025	C	SER	C	768	71.829	45.283	9.110	1.00	27.79	C
ATOM	9026	O	SER	C	768	70.766	45.033	9.678	1.00	27.79	C
ATOM	9027	N	PRO	C	769	72.473	44.362	8.375	1.00	38.14	C
ATOM	9028	CD	PRO	C	769	73.871	44.382	7.919	1.00	71.74	C
ATOM	9029	CA	PRO	C	769	71.892	43.019	8.229	1.00	38.14	C
ATOM	9030	CB	PRO	C	769	73.041	42.207	7.635	1.00	71.74	C
ATOM	9031	CG	PRO	C	769	74.270	42.950	8.112	1.00	71.74	C
ATOM	9032	C	PRO	C	769	71.394	42.452	9.558	1.00	38.14	C
ATOM	9033	O	PRO	C	769	71.317	43.166	10.559	1.00	38.14	C
ATOM	9034	N	GLU	C	770	71.086	41.163	9.588	1.00	70.11	C

ATOM	9035	CA	GLU	C	770	70.572	40.565	10.813	1.00	70.11	C
ATOM	9036	CB	GLU	C	770	71.501	40.817	12.006	1.00	100.07	C
ATOM	9037	CG	GLU	C	770	72.966	40.478	11.799	1.00	100.07	C
ATOM	9038	CD	GLU	C	770	73.769	41.638	11.242	1.00	100.07	C
ATOM	9039	OE1	GLU	C	770	73.574	42.781	11.714	1.00	100.07	C
ATOM	9040	OE2	GLU	C	770	74.607	41.401	10.345	1.00	100.07	C
ATOM	9041	C	GLU	C	770	69.265	41.298	11.049	1.00	70.11	C
ATOM	9042	O	GLU	C	770	68.221	40.874	10.571	1.00	70.11	C
ATOM	9043	N	GLU	C	771	69.334	42.410	11.778	1.00	44.18	C
ATOM	9044	CA	GLU	C	771	68.155	43.222	12.051	1.00	44.18	C
ATOM	9045	CB	GLU	C	771	68.580	44.532	12.721	1.00	100.07	C
ATOM	9046	CG	GLU	C	771	67.529	45.183	13.618	1.00	100.07	C
ATOM	9047	CD	GLU	C	771	66.710	46.262	12.914	1.00	100.07	C
ATOM	9048	OE1	GLU	C	771	65.912	45.918	12.011	1.00	100.07	C
ATOM	9049	OE2	GLU	C	771	66.866	47.458	13.265	1.00	100.07	C
ATOM	9050	C	GLU	C	771	67.503	43.479	10.682	1.00	44.18	C
ATOM	9051	O	GLU	C	771	66.282	43.371	10.514	1.00	44.18	C
ATOM	9052	N	ARG	C	772	68.328	43.798	9.692	1.00	35.17	C
ATOM	9053	CA	ARG	C	772	67.809	44.029	8.356	1.00	35.17	C
ATOM	9054	CB	ARG	C	772	68.928	44.482	7.414	1.00	100.07	C
ATOM	9055	CG	ARG	C	772	68.529	44.489	5.941	1.00	100.07	C
ATOM	9056	CD	ARG	C	772	69.583	45.128	5.035	1.00	100.07	C
ATOM	9057	NE	ARG	C	772	69.532	46.591	5.042	1.00	100.07	C
ATOM	9058	CZ	ARG	C	772	68.457	47.315	4.734	1.00	100.07	C
ATOM	9059	NH1	ARG	C	772	67.316	46.725	4.395	1.00	100.07	C
ATOM	9060	NH2	ARG	C	772	68.524	48.640	4.750	1.00	100.07	C
ATOM	9061	C	ARG	C	772	67.229	42.703	7.882	1.00	35.17	C
ATOM	9062	O	ARG	C	772	66.147	42.653	7.295	1.00	35.17	C
ATOM	9063	N	LEU	C	773	67.958	41.628	8.152	1.00	84.17	C
ATOM	9064	CA	LEU	C	773	67.521	40.294	7.769	1.00	84.17	C
ATOM	9065	CB	LEU	C	773	68.610	39.271	8.089	1.00	54.45	C
ATOM	9066	CG	LEU	C	773	68.142	37.826	8.307	1.00	54.45	C
ATOM	9067	CD1	LEU	C	773	67.332	37.321	7.119	1.00	54.45	C
ATOM	9068	CD2	LEU	C	773	69.362	36.960	8.534	1.00	54.45	C
ATOM	9069	C	LEU	C	773	66.229	39.886	8.468	1.00	84.17	C
ATOM	9070	O	LEU	C	773	65.241	39.552	7.810	1.00	84.17	C
ATOM	9071	N	LEU	C	774	66.248	39.900	9.800	1.00	74.93	C
ATOM	9072	CA	LEU	C	774	65.081	39.523	10.583	1.00	74.93	C
ATOM	9073	CB	LEU	C	774	65.252	39.885	12.057	1.00	69.96	C
ATOM	9074	CG	LEU	C	774	66.088	38.975	12.955	1.00	69.96	C
ATOM	9075	CD1	LEU	C	774	67.569	39.139	12.642	1.00	69.96	C
ATOM	9076	CD2	LEU	C	774	65.807	39.328	14.417	1.00	69.96	C
ATOM	9077	C	LEU	C	774	63.845	40.212	10.072	1.00	74.93	C
ATOM	9078	O	LEU	C	774	62.747	39.698	10.238	1.00	74.93	C
ATOM	9079	N	ARG	C	775	64.025	41.377	9.455	1.00	99.83	C
ATOM	9080	CA	ARG	C	775	62.910	42.159	8.923	1.00	99.83	C
ATOM	9081	CB	ARG	C	775	63.440	43.481	8.381	1.00	74.88	C
ATOM	9082	CG	ARG	C	775	63.789	44.488	9.469	1.00	74.88	C
ATOM	9083	CD	ARG	C	775	62.532	45.102	10.047	1.00	74.88	C
ATOM	9084	NE	ARG	C	775	62.829	46.227	10.921	1.00	74.88	C
ATOM	9085	CZ	ARG	C	775	61.900	47.007	11.457	1.00	74.88	C
ATOM	9086	NH1	ARG	C	775	60.615	46.781	11.202	1.00	74.88	C
ATOM	9087	NH2	ARG	C	775	62.253	48.011	12.249	1.00	74.88	C
ATOM	9088	C	ARG	C	775	62.082	41.428	7.860	1.00	99.83	C
ATOM	9089	O	ARG	C	775	60.876	41.661	7.722	1.00	99.83	C
ATOM	9090	N	SER	C	776	62.735	40.547	7.107	1.00	43.10	C
ATOM	9091	CA	SER	C	776	62.043	39.760	6.095	1.00	43.10	C
ATOM	9092	CB	SER	C	776	63.003	38.720	5.505	1.00	84.13	C
ATOM	9093	OG	SER	C	776	63.794	38.110	6.513	1.00	84.13	C
ATOM	9094	C	SER	C	776	60.858	39.077	6.779	1.00	43.10	C
ATOM	9095	O	SER	C	776	59.745	39.099	6.273	1.00	43.10	C
ATOM	9096	N	ILE	C	777	61.137	38.493	7.943	1.00	80.96	C
ATOM	9097	CA	ILE	C	777	60.172	37.793	8.796	1.00	80.96	C
ATOM	9098	CB	ILE	C	777	60.761	37.617	10.230	1.00	54.14	C
ATOM	9099	CG2	ILE	C	777	59.788	36.854	11.139	1.00	54.14	C
ATOM	9100	CG1	ILE	C	777	62.153	36.972	10.130	1.00	54.14	C
ATOM	9101	CD	ILE	C	777	62.361	36.078	8.908	1.00	54.14	C
ATOM	9102	C	ILE	C	777	58.839	38.528	8.903	1.00	80.96	C
ATOM	9103	O	ILE	C	777	58.447	38.986	9.982	1.00	80.96	C
ATOM	9104	N	PHE	C	778	58.145	38.621	7.775	1.00	100.07	C
ATOM	9105	CA	PHE	C	778	56.852	39.286	7.687	1.00	100.07	C
ATOM	9106	CB	PHE	C	778	55.840	38.638	8.640	1.00	100.07	C
ATOM	9107	CG	PHE	C	778	55.982	37.140	8.774	1.00	100.07	C
ATOM	9108	CD1	PHE	C	778	56.525	36.583	9.936	1.00	100.07	C
ATOM	9109	CD2	PHE	C	778	55.552	36.283	7.756	1.00	100.07	C
ATOM	9110	CE1	PHE	C	778	56.635	35.197	10.086	1.00	100.07	C
ATOM	9111	CE2	PHE	C	778	55.658	34.891	7.896	1.00	100.07	C
ATOM	9112	CZ	PHE	C	778	56.200	34.349	9.063	1.00	100.07	C
ATOM	9113	C	PHE	C	778	56.949	40.775	8.013	1.00	100.07	C
ATOM	9114	O	PHE	C	778	56.220	41.589	7.443	1.00	100.07	C
ATOM	9115	N	GLY	C	779	57.852	41.124	8.927	1.00	53.09	C
ATOM	9116	CA	GLY	C	779	58.005	42.512	9.334	1.00	53.09	C
ATOM	9117	C	GLY	C	779	58.845	43.371	8.410	1.00	53.09	C
ATOM	9118	O	GLY	C	779	59.991	43.710	8.732	1.00	53.09	C

ATOM	9119	N	GLU	C	780	58.259	43.739	7.272	1.00	55.93	C
ATOM	9120	CA	GLU	C	780	58.934	44.554	6.263	1.00	55.93	C
ATOM	9121	CB	GLU	C	780	57.924	45.069	5.234	1.00	100.07	C
ATOM	9122	CG	GLU	C	780	57.068	43.982	4.592	1.00	100.07	C
ATOM	9123	CD	GLU	C	780	56.017	44.547	3.642	1.00	100.07	C
ATOM	9124	OE1	GLU	C	780	56.380	44.984	2.524	1.00	100.07	C
ATOM	9125	OE2	GLU	C	780	54.824	44.562	4.022	1.00	100.07	C
ATOM	9126	C	GLU	C	780	59.645	45.734	6.902	1.00	55.93	C
ATOM	9127	O	GLU	C	780	59.339	46.105	8.035	1.00	55.93	C
ATOM	9128	N	LYS	C	781	60.601	46.310	6.178	1.00	99.18	C
ATOM	9129	CA	LYS	C	781	61.345	47.460	6.680	1.00	99.18	C
ATOM	9130	CB	LYS	C	781	62.604	47.687	5.843	1.00	85.95	C
ATOM	9131	CG	LYS	C	781	62.312	47.909	4.368	1.00	85.95	C
ATOM	9132	CD	LYS	C	781	63.511	48.493	3.628	1.00	85.95	C
ATOM	9133	CE	LYS	C	781	63.151	48.856	2.188	1.00	85.95	C
ATOM	9134	NZ	LYS	C	781	64.235	49.605	1.491	1.00	85.95	C
ATOM	9135	C	LYS	C	781	60.424	48.667	6.563	1.00	99.18	C
ATOM	9136	O	LYS	C	781	59.351	48.561	5.972	1.00	99.18	C
ATOM	9137	N	ALA	C	782	60.832	49.805	7.121	1.00	56.09	C
ATOM	9138	CA	ALA	C	782	60.020	51.025	7.058	1.00	56.09	C
ATOM	9139	CB	ALA	C	782	59.096	51.108	8.278	1.00	99.75	C
ATOM	9140	C	ALA	C	782	60.882	52.288	6.961	1.00	56.09	C
ATOM	9141	O	ALA	C	782	62.115	52.222	7.040	1.00	56.09	C
ATOM	9142	N	ARG	C	783	60.225	53.435	6.786	1.00	97.54	C
ATOM	9143	CA	ARG	C	783	60.916	54.724	6.665	1.00	97.54	C
ATOM	9144	CB	ARG	C	783	61.433	54.909	5.223	1.00	86.06	C
ATOM	9145	CG	ARG	C	783	60.639	54.163	4.122	1.00	86.06	C
ATOM	9146	CD	ARG	C	783	59.209	54.695	3.917	1.00	86.06	C
ATOM	9147	NE	ARG	C	783	58.446	53.884	2.961	1.00	86.06	C
ATOM	9148	CZ	ARG	C	783	57.262	54.217	2.447	1.00	86.06	C
ATOM	9149	NH1	ARG	C	783	56.674	55.359	2.782	1.00	86.06	C
ATOM	9150	NH2	ARG	C	783	56.663	53.402	1.589	1.00	86.06	C
ATOM	9151	C	ARG	C	783	60.062	55.935	7.061	1.00	97.54	C
ATOM	9152	O	ARG	C	783	60.210	57.009	6.481	1.00	97.54	C
ATOM	9153	N	ASP	C	784	59.197	55.777	8.062	1.00	100.07	C
ATOM	9154	CA	ASP	C	784	58.322	56.872	8.473	1.00	100.07	C
ATOM	9155	CB	ASP	C	784	57.030	56.792	7.685	1.00	39.87	C
ATOM	9156	CG	ASP	C	784	57.251	56.947	6.216	1.00	39.87	C
ATOM	9157	OD1	ASP	C	784	57.775	58.004	5.813	1.00	39.87	C
ATOM	9158	OD2	ASP	C	784	56.907	56.017	5.461	1.00	39.87	C
ATOM	9159	C	ASP	C	784	57.966	57.008	9.951	1.00	100.07	C
ATOM	9160	O	ASP	C	784	57.837	56.017	10.677	1.00	100.07	C
ATOM	9161	N	VAL	C	785	57.777	58.258	10.370	1.00	78.78	C
ATOM	9162	CA	VAL	C	785	57.421	58.592	11.746	1.00	78.78	C
ATOM	9163	CB	VAL	C	785	58.449	59.563	12.369	1.00	99.50	C
ATOM	9164	CG1	VAL	C	785	58.043	59.913	13.798	1.00	99.50	C
ATOM	9165	CG2	VAL	C	785	59.836	58.950	12.331	1.00	99.50	C
ATOM	9166	C	VAL	C	785	56.062	59.286	11.753	1.00	78.78	C
ATOM	9167	O	VAL	C	785	55.799	60.156	10.922	1.00	78.78	C
ATOM	9168	N	LYS	C	786	55.192	58.904	12.680	1.00	99.29	C
ATOM	9169	CA	LYS	C	786	53.886	59.542	12.749	1.00	99.29	C
ATOM	9170	CB	LYS	C	786	52.964	58.786	13.692	1.00	100.07	C
ATOM	9171	CG	LYS	C	786	53.517	58.643	15.076	1.00	100.07	C
ATOM	9172	CD	LYS	C	786	52.894	57.448	15.740	1.00	100.07	C
ATOM	9173	CE	LYS	C	786	53.713	56.992	16.927	1.00	100.07	C
ATOM	9174	NZ	LYS	C	786	53.301	55.634	17.397	1.00	100.07	C
ATOM	9175	C	LYS	C	786	54.135	60.919	13.301	1.00	99.29	C
ATOM	9176	O	LYS	C	786	55.175	61.153	13.909	1.00	99.29	C
ATOM	9177	N	ASP	C	787	53.198	61.833	13.078	1.00	89.06	C
ATOM	9178	CA	ASP	C	787	53.341	63.188	13.598	1.00	89.06	C
ATOM	9179	CB	ASP	C	787	54.167	64.066	12.644	1.00	38.50	C
ATOM	9180	CG	ASP	C	787	55.542	63.479	12.340	1.00	38.50	C
ATOM	9181	OD1	ASP	C	787	56.297	63.133	13.268	1.00	38.50	C
ATOM	9182	OD2	ASP	C	787	55.876	63.371	11.153	1.00	38.50	C
ATOM	9183	C	ASP	C	787	51.972	63.810	13.842	1.00	89.06	C
ATOM	9184	O	ASP	C	787	50.956	63.307	13.363	1.00	89.06	C
ATOM	9185	N	THR	C	788	51.970	64.906	14.594	1.00	72.43	C
ATOM	9186	CA	THR	C	788	50.760	65.636	14.976	1.00	72.43	C
ATOM	9187	CB	THR	C	788	49.879	66.033	13.783	1.00	100.04	C
ATOM	9188	OG1	THR	C	788	50.675	66.665	12.772	1.00	100.04	C
ATOM	9189	CG2	THR	C	788	48.781	67.000	14.259	1.00	100.04	C
ATOM	9190	C	THR	C	788	49.903	64.786	15.891	1.00	72.43	C
ATOM	9191	O	THR	C	788	50.010	63.563	15.883	1.00	72.43	C
ATOM	9192	N	SER	C	789	49.046	65.449	16.660	1.00	45.06	C
ATOM	9193	CA	SER	C	789	48.144	64.809	17.625	1.00	45.06	C
ATOM	9194	CB	SER	C	789	48.863	63.754	18.482	1.00	50.11	C
ATOM	9195	OG	SER	C	789	48.895	62.472	17.880	1.00	50.11	C
ATOM	9196	C	SER	C	789	47.709	65.935	18.541	1.00	45.06	C
ATOM	9197	O	SER	C	789	48.369	66.977	18.590	1.00	45.06	C
ATOM	9198	N	LEU	C	790	46.629	65.722	19.288	1.00	18.16	C
ATOM	9199	CA	LEU	C	790	46.110	66.753	20.196	1.00	18.16	C
ATOM	9200	CB	LEU	C	790	44.639	66.504	20.513	1.00	17.00	C
ATOM	9201	CG	LEU	C	790	44.249	67.121	21.841	1.00	17.00	C
ATOM	9202	CD1	LEU	C	790	44.518	68.596	21.829	1.00	17.00	C

ATOM	9203	CD2	LEU	C	790	42.808	66.858	22.074	1.00	17.00	C
ATOM	9204	C	LEU	C	790	46.861	66.966	21.504	1.00	18.16	C
ATOM	9205	O	LEU	C	790	47.034	66.049	22.304	1.00	18.16	C
ATOM	9206	N	ARG	C	791	47.240	68.224	21.709	1.00	45.09	C
ATOM	9207	CA	ARG	C	791	47.989	68.664	22.868	1.00	45.09	C
ATOM	9208	CB	ARG	C	791	47.940	70.194	22.993	1.00	100.07	C
ATOM	9209	CG	ARG	C	791	49.028	70.752	23.909	1.00	100.07	C
ATOM	9210	CD	ARG	C	791	48.640	72.069	24.570	1.00	100.07	C
ATOM	9211	NE	ARG	C	791	49.497	72.357	25.724	1.00	100.07	C
ATOM	9212	CZ	ARG	C	791	49.251	73.300	26.632	1.00	100.07	C
ATOM	9213	NH1	ARG	C	791	48.166	74.064	26.527	1.00	100.07	C
ATOM	9214	NH2	ARG	C	791	50.082	73.466	27.658	1.00	100.07	C
ATOM	9215	C	ARG	C	791	47.519	68.031	24.166	1.00	45.09	C
ATOM	9216	O	ARG	C	791	46.558	67.268	24.189	1.00	45.09	C
ATOM	9217	N	VAL	C	792	48.233	68.358	25.238	1.00	24.83	C
ATOM	9218	CA	VAL	C	792	47.964	67.870	26.575	1.00	24.83	C
ATOM	9219	CB	VAL	C	792	49.249	67.941	27.404	1.00	55.01	C
ATOM	9220	CG1	VAL	C	792	50.257	66.956	26.857	1.00	55.01	C
ATOM	9221	CG2	VAL	C	792	49.842	69.339	27.327	1.00	55.01	C
ATOM	9222	C	VAL	C	792	46.857	68.720	27.213	1.00	24.83	C
ATOM	9223	O	VAL	C	792	46.885	69.949	27.164	1.00	24.83	C
ATOM	9224	N	PRO	C	793	45.888	68.075	27.865	1.00	61.06	C
ATOM	9225	CD	PRO	C	793	46.311	66.994	28.776	1.00	100.07	C
ATOM	9226	CA	PRO	C	793	44.779	68.793	28.491	1.00	61.06	C
ATOM	9227	CB	PRO	C	793	45.286	68.961	29.911	1.00	100.07	C
ATOM	9228	CG	PRO	C	793	45.859	67.531	30.169	1.00	100.07	C
ATOM	9229	C	PRO	C	793	44.210	70.085	27.871	1.00	61.06	C
ATOM	9230	O	PRO	C	793	44.005	71.074	28.576	1.00	61.06	C
ATOM	9231	N	PRO	C	794	43.953	70.087	26.545	1.00	99.26	C
ATOM	9232	CD	PRO	C	794	44.723	69.290	25.576	1.00	100.07	C
ATOM	9233	CA	PRO	C	794	43.401	71.238	25.831	1.00	99.26	C
ATOM	9234	CB	PRO	C	794	44.583	71.695	25.006	1.00	100.07	C
ATOM	9235	CG	PRO	C	794	45.126	70.353	24.516	1.00	100.07	C
ATOM	9236	C	PRO	C	794	42.272	70.695	24.945	1.00	99.26	C
ATOM	9237	O	PRO	C	794	41.624	71.427	24.192	1.00	99.26	C
ATOM	9238	N	GLY	C	795	42.073	69.385	25.038	1.00	46.52	C
ATOM	9239	CA	GLY	C	795	41.042	68.728	24.269	1.00	46.52	C
ATOM	9240	C	GLY	C	795	39.761	68.629	25.070	1.00	46.52	C
ATOM	9241	O	GLY	C	795	38.771	69.258	24.689	1.00	46.52	C
ATOM	9242	N	GLU	C	796	39.788	67.849	26.166	1.00	75.64	C
ATOM	9243	CA	GLU	C	796	38.645	67.628	27.083	1.00	75.64	C
ATOM	9244	CB	GLU	C	796	38.259	68.942	27.779	1.00	79.10	C
ATOM	9245	CG	GLU	C	796	37.040	68.851	28.699	1.00	79.10	C
ATOM	9246	CD	GLU	C	796	36.127	70.067	28.592	1.00	79.10	C
ATOM	9247	OE1	GLU	C	796	35.550	70.280	27.504	1.00	79.10	C
ATOM	9248	OE2	GLU	C	796	35.987	70.806	29.592	1.00	79.10	C
ATOM	9249	C	GLU	C	796	37.408	67.059	26.385	1.00	75.64	C
ATOM	9250	O	GLU	C	796	36.369	66.824	27.007	1.00	75.64	C
ATOM	9251	N	GLY	C	797	37.542	66.823	25.088	1.00	100.07	C
ATOM	9252	CA	GLY	C	797	36.433	66.329	24.303	1.00	100.07	C
ATOM	9253	C	GLY	C	797	36.133	67.432	23.312	1.00	100.07	C
ATOM	9254	O	GLY	C	797	34.996	67.614	22.877	1.00	100.07	C
ATOM	9255	N	GLY	C	798	37.171	68.191	22.972	1.00	29.78	C
ATOM	9256	CA	GLY	C	798	36.997	69.269	22.031	1.00	29.78	C
ATOM	9257	C	GLY	C	798	36.429	68.635	20.786	1.00	29.78	C
ATOM	9258	O	GLY	C	798	37.158	68.067	19.975	1.00	29.78	C
ATOM	9259	N	ILE	C	799	35.120	68.709	20.626	1.00	45.20	C
ATOM	9260	CA	ILE	C	799	34.511	68.100	19.463	1.00	45.20	C
ATOM	9261	CB	ILE	C	799	32.993	67.954	19.686	1.00	36.50	C
ATOM	9262	CG2	ILE	C	799	32.731	67.156	20.966	1.00	36.50	C
ATOM	9263	CG1	ILE	C	799	32.348	69.319	19.871	1.00	36.50	C
ATOM	9264	CD	ILE	C	799	30.922	69.207	20.278	1.00	36.50	C
ATOM	9265	C	ILE	C	799	34.819	68.880	18.179	1.00	45.20	C
ATOM	9266	O	ILE	C	799	34.157	69.862	17.865	1.00	45.20	C
ATOM	9267	N	VAL	C	800	35.844	68.434	17.455	1.00	35.42	C
ATOM	9268	CA	VAL	C	800	36.278	69.056	16.204	1.00	35.42	C
ATOM	9269	CB	VAL	C	800	36.891	68.007	15.264	1.00	28.90	C
ATOM	9270	CG1	VAL	C	800	36.999	68.569	13.853	1.00	28.90	C
ATOM	9271	CG2	VAL	C	800	38.269	67.608	15.779	1.00	28.90	C
ATOM	9272	C	VAL	C	800	35.167	69.790	15.466	1.00	35.42	C
ATOM	9273	O	VAL	C	800	34.279	69.170	14.903	1.00	35.42	C
ATOM	9274	N	VAL	C	801	35.249	71.115	15.448	1.00	28.85	C
ATOM	9275	CA	VAL	C	801	34.231	71.940	14.826	1.00	28.85	C
ATOM	9276	CB	VAL	C	801	34.009	73.238	15.588	1.00	19.72	C
ATOM	9277	CG1	VAL	C	801	32.615	73.732	15.314	1.00	19.72	C
ATOM	9278	CG2	VAL	C	801	34.265	73.050	17.067	1.00	19.72	C
ATOM	9279	C	VAL	C	801	34.520	72.371	13.414	1.00	28.85	C
ATOM	9280	O	VAL	C	801	33.670	72.998	12.779	1.00	28.85	C
ATOM	9281	N	GLY	C	802	35.714	72.086	12.918	1.00	80.75	C
ATOM	9282	CA	GLY	C	802	36.017	72.494	11.562	1.00	80.75	C
ATOM	9283	C	GLY	C	802	37.467	72.315	11.193	1.00	80.75	C
ATOM	9284	O	GLY	C	802	38.331	72.198	12.063	1.00	80.75	C
ATOM	9285	N	ARG	C	803	37.733	72.292	9.893	1.00	20.60	C
ATOM	9286	CA	ARG	C	803	39.095	72.133	9.399	1.00	20.60	C

ATOM	9287	CB	ARG	C	803	39.365	70.656	9.057	1.00100.07	C
ATOM	9288	CG	ARG	C	803	38.142	69.883	8.562	1.00100.07	C
ATOM	9289	CD	ARG	C	803	38.180	69.580	7.062	1.00100.07	C
ATOM	9290	NE	ARG	C	803	36.883	69.820	6.424	1.00100.07	C
ATOM	9291	CZ	ARG	C	803	36.583	69.500	5.168	1.00100.07	C
ATOM	9292	NH1	ARG	C	803	37.484	68.911	4.389	1.00100.07	C
ATOM	9293	NH2	ARG	C	803	35.385	69.790	4.682	1.00100.07	C
ATOM	9294	C	ARG	C	803	39.288	73.025	8.179	1.00 20.60	C
ATOM	9295	O	ARG	C	803	38.327	73.363	7.488	1.00 20.60	C
ATOM	9296	N	LEU	C	804	40.525	73.444	7.949	1.00 50.03	C
ATOM	9297	CA	LEU	C	804	40.863	74.271	6.801	1.00 50.03	C
ATOM	9298	CB	LEU	C	804	41.066	75.731	7.196	1.00 45.33	C
ATOM	9299	CG	LEU	C	804	41.890	76.518	6.166	1.00 45.33	C
ATOM	9300	CD1	LEU	C	804	41.250	76.369	4.799	1.00 45.33	C
ATOM	9301	CD2	LEU	C	804	41.997	77.994	6.554	1.00 45.33	C
ATOM	9302	C	LEU	C	804	42.160	73.724	6.243	1.00 50.03	C
ATOM	9303	O	LEU	C	804	43.031	73.265	6.991	1.00 50.03	C
ATOM	9304	N	ARG	C	805	42.292	73.777	4.928	1.00 57.38	C
ATOM	9305	CA	ARG	C	805	43.481	73.265	4.291	1.00 57.38	C
ATOM	9306	CB	ARG	C	805	43.224	71.858	3.758	1.00100.02	C
ATOM	9307	CG	ARG	C	805	42.202	71.780	2.619	1.00100.02	C
ATOM	9308	CD	ARG	C	805	40.873	72.462	2.962	1.00100.02	C
ATOM	9309	NE	ARG	C	805	39.797	72.075	2.047	1.00100.02	C
ATOM	9310	CZ	ARG	C	805	38.539	72.506	2.131	1.00100.02	C
ATOM	9311	NH1	ARG	C	805	38.177	73.354	3.089	1.00100.02	C
ATOM	9312	NH2	ARG	C	805	37.637	72.072	1.261	1.00100.02	C
ATOM	9313	C	ARG	C	805	43.879	74.155	3.153	1.00 57.38	C
ATOM	9314	O	ARG	C	805	43.126	74.318	2.196	1.00 57.38	C
ATOM	9315	N	LEU	C	806	45.051	74.760	3.259	1.00 48.35	C
ATOM	9316	CA	LEU	C	806	45.515	75.582	2.161	1.00 48.35	C
ATOM	9317	CB	LEU	C	806	45.464	77.082	2.517	1.00 33.54	C
ATOM	9318	CG	LEU	C	806	46.212	77.798	3.635	1.00 33.54	C
ATOM	9319	CD1	LEU	C	806	47.687	77.828	3.334	1.00 33.54	C
ATOM	9320	CD2	LEU	C	806	45.701	79.223	3.725	1.00 33.54	C
ATOM	9321	C	LEU	C	806	46.911	75.112	1.759	1.00 48.35	C
ATOM	9322	O	LEU	C	806	47.836	75.099	2.569	1.00 48.35	C
ATOM	9323	N	ARG	C	807	47.033	74.679	0.504	1.00 97.68	C
ATOM	9324	CA	ARG	C	807	48.290	74.170	-0.044	1.00 97.68	C
ATOM	9325	CB	ARG	C	807	48.071	72.749	-0.592	1.00 98.93	C
ATOM	9326	CG	ARG	C	807	46.648	72.436	-1.106	1.00 98.93	C
ATOM	9327	CD	ARG	C	807	46.246	73.311	-2.300	1.00 98.93	C
ATOM	9328	NE	ARG	C	807	45.070	72.803	-3.014	1.00 98.93	C
ATOM	9329	CZ	ARG	C	807	44.615	73.301	-4.165	1.00 98.93	C
ATOM	9330	NH1	ARG	C	807	45.231	74.326	-4.742	1.00 98.93	C
ATOM	9331	NH2	ARG	C	807	43.548	72.765	-4.745	1.00 98.93	C
ATOM	9332	C	ARG	C	807	48.868	75.080	-1.131	1.00 97.68	C
ATOM	9333	O	ARG	C	807	48.127	75.599	-1.972	1.00 97.68	C
ATOM	9334	N	ARG	C	808	50.188	75.276	-1.120	1.00 35.28	C
ATOM	9335	CA	ARG	C	808	50.791	76.147	-2.125	1.00 35.28	C
ATOM	9336	CB	ARG	C	808	52.322	76.153	-2.037	1.00 50.51	C
ATOM	9337	CG	ARG	C	808	52.998	74.942	-2.613	1.00 50.51	C
ATOM	9338	CD	ARG	C	808	54.506	75.143	-2.752	1.00 50.51	C
ATOM	9339	NE	ARG	C	808	55.163	73.862	-3.018	1.00 50.51	C
ATOM	9340	CZ	ARG	C	808	56.475	73.680	-3.108	1.00 50.51	C
ATOM	9341	NH1	ARG	C	808	57.303	74.701	-2.961	1.00 50.51	C
ATOM	9342	NH2	ARG	C	808	56.958	72.467	-3.323	1.00 50.51	C
ATOM	9343	C	ARG	C	808	50.352	75.682	-3.500	1.00 35.28	C
ATOM	9344	O	ARG	C	808	50.152	74.488	-3.732	1.00 35.28	C
ATOM	9345	N	GLY	C	809	50.194	76.627	-4.411	1.00 99.53	C
ATOM	9346	CA	GLY	C	809	49.754	76.270	-5.740	1.00 99.53	C
ATOM	9347	C	GLY	C	809	48.247	76.353	-5.753	1.00 99.53	C
ATOM	9348	O	GLY	C	809	47.585	75.666	-6.525	1.00 99.53	C
ATOM	9349	N	ASP	C	810	47.711	77.186	-4.866	1.00 72.09	C
ATOM	9350	CA	ASP	C	810	46.272	77.399	-4.770	1.00 72.09	C
ATOM	9351	CB	ASP	C	810	45.848	77.349	-3.301	1.00 95.21	C
ATOM	9352	CG	ASP	C	810	44.457	76.769	-3.114	1.00 95.21	C
ATOM	9353	OD1	ASP	C	810	43.556	77.113	-3.910	1.00 95.21	C
ATOM	9354	OD2	ASP	C	810	44.265	75.979	-2.163	1.00 95.21	C
ATOM	9355	C	ASP	C	810	46.033	78.781	-5.419	1.00 72.09	C
ATOM	9356	O	ASP	C	810	46.612	79.058	-6.464	1.00 72.09	C
ATOM	9357	N	PRO	C	811	45.209	79.669	-4.834	1.00 68.87	C
ATOM	9358	CD	PRO	C	811	44.476	79.824	-3.564	1.00 47.95	C
ATOM	9359	CA	PRO	C	811	45.119	80.909	-5.603	1.00 68.87	C
ATOM	9360	CB	PRO	C	811	43.955	81.619	-4.949	1.00 47.95	C
ATOM	9361	CG	PRO	C	811	44.205	81.326	-3.517	1.00 47.95	C
ATOM	9362	C	PRO	C	811	46.395	81.743	-5.519	1.00 68.87	C
ATOM	9363	O	PRO	C	811	46.915	82.199	-6.542	1.00 68.87	C
ATOM	9364	N	GLY	C	812	46.889	81.951	-4.298	1.00100.07	C
ATOM	9365	CA	GLY	C	812	48.096	82.746	-4.109	1.00100.07	C
ATOM	9366	C	GLY	C	812	48.864	82.466	-2.824	1.00100.07	C
ATOM	9367	O	GLY	C	812	50.098	82.427	-2.826	1.00100.07	C
ATOM	9368	N	VAL	C	813	48.132	82.295	-1.728	1.00 30.10	C
ATOM	9369	CA	VAL	C	813	48.715	81.994	-0.428	1.00 30.10	C
ATOM	9370	CB	VAL	C	813	48.208	80.633	0.086	1.00 57.90	C

ATOM	9371	CG1	VAL	C	813	47.903	80.728	1.579	1.00	57.90	C
ATOM	9372	CG2	VAL	C	813	47.000	80.180	-0.725	1.00	57.90	C
ATOM	9373	C	VAL	C	813	50.251	81.950	-0.341	1.00	30.10	C
ATOM	9374	O	VAL	C	813	50.910	81.077	-0.930	1.00	30.10	C
ATOM	9375	N	GLU	C	814	50.834	82.888	0.394	1.00	41.78	C
ATOM	9376	CA	GLU	C	814	52.274	82.846	0.552	1.00	41.78	C
ATOM	9377	CB	GLU	C	814	52.847	84.172	1.085	1.00	100.07	C
ATOM	9378	CG	GLU	C	814	54.401	84.176	1.136	1.00	100.07	C
ATOM	9379	*CD	GLU	C	814	55.026	85.350	1.910	1.00	100.07	C
ATOM	9380	OE1	GLU	C	814	54.991	85.345	3.165	1.00	100.07	C
ATOM	9381	OE2	GLU	C	814	55.565	86.277	1.257	1.00	100.07	C
ATOM	9382	C	GLU	C	814	52.488	81.761	1.598	1.00	41.78	C
ATOM	9383	O	GLU	C	814	51.749	81.689	2.586	1.00	41.78	C
ATOM	9384	N	LEU	C	815	53.469	80.897	1.369	1.00	57.51	C
ATOM	9385	CA	LEU	C	815	53.775	79.858	2.336	1.00	57.51	C
ATOM	9386	CB	LEU	C	815	53.208	78.508	1.903	1.00	57.31	C
ATOM	9387	CG	LEU	C	815	51.743	78.345	2.307	1.00	57.31	C
ATOM	9388	CD1	LEU	C	815	50.871	79.124	1.343	1.00	57.31	C
ATOM	9389	CD2	LEU	C	815	51.358	76.874	2.307	1.00	57.31	C
ATOM	9390	C	LEU	C	815	55.269	79.748	2.571	1.00	57.51	C
ATOM	9391	O	LEU	C	815	56.022	79.367	1.679	1.00	57.51	C
ATOM	9392	N	LYS	C	816	55.677	80.105	3.787	1.00	66.37	C
ATOM	9393	CA	LYS	C	816	57.069	80.057	4.206	1.00	66.37	C
ATOM	9394	CB	LYS	C	816	57.166	79.641	5.676	1.00	92.74	C
ATOM	9395	CG	LYS	C	816	58.588	79.379	6.159	1.00	92.74	C
ATOM	9396	CD	LYS	C	816	59.456	80.630	6.064	1.00	92.74	C
ATOM	9397	CE	LYS	C	816	60.908	80.356	6.453	1.00	92.74	C
ATOM	9398	NZ	LYS	C	816	61.600	79.349	5.584	1.00	92.74	C
ATOM	9399	C	LYS	C	816	57.849	79.077	3.355	1.00	66.37	C
ATOM	9400	O	LYS	C	816	57.446	77.930	3.189	1.00	66.37	C
ATOM	9401	N	PRO	C	817	58.973	79.526	2.786	1.00	80.61	C
ATOM	9402	CD	PRO	C	817	59.620	80.837	2.935	1.00	71.98	C
ATOM	9403	CA	PRO	C	817	59.789	78.648	1.952	1.00	80.61	C
ATOM	9404	CB	PRO	C	817	61.119	79.401	1.855	1.00	71.98	C
ATOM	9405	CG	PRO	C	817	61.051	80.448	2.970	1.00	71.98	C
ATOM	9406	C	PRO	C	817	59.938	77.242	2.525	1.00	80.61	C
ATOM	9407	O	PRO	C	817	60.220	77.056	3.712	1.00	80.61	C
ATOM	9408	N	GLY	C	818	59.747	76.254	1.660	1.00	76.22	C
ATOM	9409	CA	GLY	C	818	59.847	74.876	2.087	1.00	76.22	C
ATOM	9410	C	GLY	C	818	58.445	74.459	2.442	1.00	76.22	C
ATOM	9411	O	GLY	C	818	57.922	73.474	1.928	1.00	76.22	C
ATOM	9412	N	VAL	C	819	57.824	75.236	3.318	1.00	43.58	C
ATOM	9413	CA	VAL	C	819	56.470	74.942	3.736	1.00	43.58	C
ATOM	9414	CB	VAL	C	919	55.876	76.087	4.557	1.00	100.07	C
ATOM	9415	CG1	VAL	C	819	54.455	75.749	4.963	1.00	100.07	C
ATOM	9416	CG2	VAL	C	819	56.739	76.339	5.777	1.00	100.07	C
ATOM	9417	C	VAL	C	819	55.631	74.737	2.495	1.00	43.58	C
ATOM	9418	O	VAL	C	819	55.767	75.465	1.512	1.00	43.58	C
ATOM	9419	N	ARG	C	820	54.782	73.722	2.556	1.00	37.99	C
ATOM	9420	CA	ARG	C	820	53.893	73.365	1.468	1.00	37.99	C
ATOM	9421	CB	ARG	C	820	54.561	72.321	0.589	1.00	77.32	C
ATOM	9422	CG	ARG	C	820	53.585	71.441	-0.143	1.00	77.32	C
ATOM	9423	CD	ARG	C	820	54.189	70.075	-0.377	1.00	77.32	C
ATOM	9424	NE	ARG	C	820	53.154	69.089	-0.659	1.00	77.32	C
ATOM	9425	CZ	ARG	C	820	53.374	67.784	-0.726	1.00	77.32	C
ATOM	9426	NH1	ARG	C	820	54.599	67.314	-0.531	1.00	77.32	C
ATOM	9427	NH2	ARG	C	820	52.370	66.954	-0.981	1.00	77.32	C
ATOM	9428	C	ARG	C	820	52.662	72.773	2.129	1.00	37.99	C
ATOM	9429	O	ARG	C	820	52.784	71.870	2.944	1.00	37.99	C
ATOM	9430	N	GLU	C	821	51.480	73.266	1.785	1.00	34.34	C
ATOM	9431	CA	GLU	C	821	50.271	72.760	2.410	1.00	34.34	C
ATOM	9432	CB	GLU	C	821	50.140	71.259	2.174	1.00	45.30	C
ATOM	9433	CG	GLU	C	821	48.816	70.696	2.628	1.00	45.30	C
ATOM	9434	CD	GLU	C	821	48.768	69.184	2.553	1.00	45.30	C
ATOM	9435	OE1	GLU	C	821	49.573	68.535	3.250	1.00	45.30	C
ATOM	9436	OE2	GLU	C	821	47.925	68.644	1.802	1.00	45.30	C
ATOM	9437	C	GLU	C	821	50.424	73.035	3.902	1.00	34.34	C
ATOM	9438	O	GLU	C	821	51.495	72.842	4.459	1.00	34.34	C
ATOM	9439	N	VAL	C	822	49.360	73.493	4.553	1.00	22.98	C
ATOM	9440	CA	VAL	C	822	49.416	73.796	5.986	1.00	22.98	C
ATOM	9441	CB	VAL	C	822	49.744	75.267	6.221	1.00	37.56	C
ATOM	9442	CG1	VAL	C	822	50.024	75.494	7.676	1.00	37.56	C
ATOM	9443	CG2	VAL	C	822	50.914	75.690	5.351	1.00	37.56	C
ATOM	9444	C	VAL	C	822	48.091	73.509	6.677	1.00	22.98	C
ATOM	9445	O	VAL	C	822	47.341	74.421	6.978	1.00	22.98	C
ATOM	9446	N	VAL	C	823	47.815	72.234	6.910	1.00	23.45	C
ATOM	9447	CA	VAL	C	823	46.602	71.783	7.574	1.00	23.45	C
ATOM	9448	CB	VAL	C	823	46.804	70.364	8.146	1.00	59.29	C
ATOM	9449	CG1	VAL	C	823	45.911	70.137	9.345	1.00	59.29	C
ATOM	9450	CG2	VAL	C	823	46.502	69.336	7.080	1.00	59.29	C
ATOM	9451	C	VAL	C	823	46.229	72.707	8.717	1.00	23.45	C
ATOM	9452	O	VAL	C	823	47.103	73.287	9.360	1.00	23.45	C
ATOM	9453	N	ARG	C	824	44.936	72.839	8.982	1.00	44.37	C
ATOM	9454	CA	ARG	C	824	44.486	73.687	10.069	1.00	44.37	C

ATOM	9455	CB	ARG	C	824	44.201	75.089	9.542	1.00	64.53	C
ATOM	9456	CG	ARG	C	824	44.423	76.177	10.562	1.00	64.53	C
ATOM	9457	CD	ARG	C	824	43.578	77.423	10.280	1.00	64.53	C
ATOM	9458	NE	ARG	C	824	44.062	78.249	9.175	1.00	64.53	C
ATOM	9459	CZ	ARG	C	824	45.188	78.958	9.197	1.00	64.53	C
ATOM	9460	NH1	ARG	C	824	45.967	78.946	10.271	1.00	64.53	C
ATOM	9461	NH2	ARG	C	824	45.523	79.701	8.148	1.00	64.53	C
ATOM	9462	C	ARG	C	824	43.211	73.050	10.608	1.00	44.37	C
ATOM	9463	O	ARG	C	824	42.293	72.763	9.837	1.00	44.37	C
ATOM	9464	N	VAL	C	825	43.151	72.804	11.917	1.00	18.28	C
ATOM	9465	CA	VAL	C	825	41.966	72.185	12.524	1.00	18.28	C
ATOM	9466	CB	VAL	C	825	42.222	70.742	12.969	1.00	8.45	C
ATOM	9467	CG1	VAL	C	825	40.958	70.182	13.592	1.00	8.45	C
ATOM	9468	CG2	VAL	C	825	42.694	69.894	11.825	1.00	8.45	C
ATOM	9469	C	VAL	C	825	41.520	72.918	13.781	1.00	18.28	C
ATOM	9470	O	VAL	C	825	42.290	73.016	14.753	1.00	18.28	C
ATOM	9471	N	PHE	C	826	40.271	73.387	13.775	1.00	35.68	C
ATOM	9472	CA	PHE	C	826	39.681	74.117	14.902	1.00	35.68	C
ATOM	9473	CB	PHE	C	826	38.703	75.141	14.374	1.00	16.17	C
ATOM	9474	CG	PHE	C	826	39.335	76.171	13.532	1.00	16.17	C
ATOM	9475	CD1	PHE	C	826	39.761	77.355	14.078	1.00	16.17	C
ATOM	9476	CD2	PHE	C	926	39.530	75.954	12.186	1.00	16.17	C
ATOM	9477	CE1	PHE	C	826	40.376	78.321	13.282	1.00	16.17	C
ATOM	9478	CE2	PHE	C	826	40.145	76.909	11.382	1.00	16.17	C
ATOM	9479	CZ	PHE	C	826	40.568	78.093	11.927	1.00	16.17	C
ATOM	9480	C	PHE	C	826	38.948	73.219	15.884	1.00	35.68	C
ATOM	9481	O	PHE	C	826	38.472	72.162	15.513	1.00	35.68	C
ATOM	9482	N	VAL	C	827	38.845	73.644	17.136	1.00	41.76	C
ATOM	9483	CA	VAL	C	827	38.149	72.845	18.137	1.00	41.76	C
ATOM	9484	CB	VAL	C	827	39.107	71.964	18.959	1.00	8.72	C
ATOM	9485	CG1	VAL	C	827	38.301	71.151	19.917	1.00	8.72	C
ATOM	9486	CG2	VAL	C	827	39.921	71.049	18.068	1.00	8.72	C
ATOM	9487	C	VAL	C	827	37.402	73.728	19.125	1.00	41.76	C
ATOM	9488	O	VAL	C	827	37.891	74.789	19.518	1.00	41.76	C
ATOM	9489	N	ALA	C	828	36.227	73.278	19.547	1.00	35.26	C
ATOM	9490	CA	ALA	C	828	35.426	74.051	20.483	1.00	35.26	C
ATOM	9491	CB	ALA	C	828	34.094	74.401	19.850	1.00	55.74	C
ATOM	9492	C	ALA	C	828	35.193	73.313	21.790	1.00	35.26	C
ATOM	9493	O	ALA	C	828	35.120	72.083	21.817	1.00	35.26	C
ATOM	9494	N	GLN	C	829	35.077	74.077	22.873	1.00	33.29	C
ATOM	9495	CA	GLN	C	829	34.827	73.509	24.191	1.00	33.29	C
ATOM	9496	CB	GLN	C	829	36.016	73.744	25.126	1.00	43.24	C
ATOM	9497	CG	GLN	C	829	37.247	72.928	24.816	1.00	43.24	C
ATOM	9498	CD	GLN	C	829	38.339	73.108	25.856	1.00	43.24	C
ATOM	9499	OE1	GLN	C	829	38.204	72.661	26.996	1.00	43.24	C
ATOM	9500	NE2	GLN	C	829	39.426	73.773	25.471	1.00	43.24	C
ATOM	9501	C	GLN	C	829	33.556	74.047	24.864	1.00	33.29	C
ATOM	9502	O	GLN	C	829	33.061	75.155	24.577	1.00	33.29	C
ATOM	9503	N	LYS	C	830	33.051	73.220	25.771	1.00	76.54	C
ATOM	9504	CA	LYS	C	830	31.866	73.489	26.570	1.00	76.54	C
ATOM	9505	CB	LYS	C	830	31.462	72.190	27.258	1.00	67.00	C
ATOM	9506	CG	LYS	C	830	32.665	71.354	27.716	1.00	67.00	C
ATOM	9507	CD	LYS	C	830	32.328	69.865	27.797	1.00	67.00	C
ATOM	9508	CE	LYS	C	830	31.698	69.332	26.497	1.00	67.00	C
ATOM	9509	NZ	LYS	C	830	32.531	69.581	25.291	1.00	67.00	C
ATOM	9510	C	LYS	C	830	32.167	74.562	27.613	1.00	76.54	C
ATOM	9511	O	LYS	C	830	31.812	75.727	27.447	1.00	76.54	C
ATOM	9512	N	ARG	C	831	32.827	74.152	28.689	1.00	61.12	C
ATOM	9513	CA	ARG	C	831	33.203	75.059	29.762	1.00	61.12	C
ATOM	9514	CB	ARG	C	831	34.043	76.230	29.238	1.00	67.15	C
ATOM	9515	CG	ARG	C	831	35.478	75.862	28.908	1.00	67.15	C
ATOM	9516	CD	ARG	C	831	36.324	77.076	28.549	1.00	67.15	C
ATOM	9517	NE	ARG	C	831	37.547	76.672	27.867	1.00	67.15	C
ATOM	9518	CZ	ARG	C	831	38.416	75.798	28.356	1.00	67.15	C
ATOM	9519	NH1	ARG	C	831	38.202	75.241	29.536	1.00	67.15	C
ATOM	9520	NH2	ARG	C	831	39.486	75.459	27.653	1.00	67.15	C
ATOM	9521	C	ARG	C	831	32.041	75.623	30.536	1.00	61.12	C
ATOM	9522	O	ARG	C	831	31.408	76.591	30.112	1.00	61.12	C
ATOM	9523	N	LYS	C	832	31.762	74.994	31.670	1.00	73.93	C
ATOM	9524	CA	LYS	C	832	30.716	75.439	32.569	1.00	73.93	C
ATOM	9525	CB	LYS	C	832	29.955	74.244	33.138	1.00	52.92	C
ATOM	9526	CG	LYS	C	832	29.265	73.396	32.087	1.00	52.92	C
ATOM	9527	CD	LYS	C	832	28.761	72.096	32.673	1.00	52.92	C
ATOM	9528	CE	LYS	C	832	27.673	72.341	33.700	1.00	52.92	C
ATOM	9529	NZ	LYS	C	832	27.416	71.142	34.549	1.00	52.92	C
ATOM	9530	C	LYS	C	832	31.570	76.105	33.636	1.00	73.93	C
ATOM	9531	O	LYS	C	832	32.720	76.444	33.363	1.00	73.93	C
ATOM	9532	N	LEU	C	833	31.050	76.280	34.843	1.00	36.60	C
ATOM	9533	CA	LEU	C	833	31.838	76.935	35.879	1.00	36.60	C
ATOM	9534	CB	LEU	C	833	30.934	77.862	36.695	1.00	25.51	C
ATOM	9535	CG	LEU	C	833	31.589	78.991	37.492	1.00	25.51	C
ATOM	9536	CD1	LEU	C	833	32.612	79.700	36.636	1.00	25.51	C
ATOM	9537	CD2	LEU	C	833	30.521	79.961	37.957	1.00	25.51	C
ATOM	9538	C	LEU	C	833	32.564	75.937	36.783	1.00	36.60	C

ATOM	9539	O	LEU	C	833	32.094	74.815	37.004	1.00	36.60	C
ATOM	9540	N	GLN	C	834	33.721	76.341	37.295	1.00	37.55	C
ATOM	9541	CA	GLN	C	834	34.502	75.461	38.157	1.00	37.55	C
ATOM	9542	CB	GLN	C	834	35.602	74.750	37.370	1.00	71.12	C
ATOM	9543	CG	GLN	C	834	35.162	73.912	36.191	1.00	71.12	C
ATOM	9544	CD	GLN	C	834	36.352	73.324	35.467	1.00	71.12	C
ATOM	9545	OE1	GLN	C	834	37.283	74.043	35.114	1.00	71.12	C
ATOM	9546	NE2	GLN	C	834	36.332	72.015	35.244	1.00	71.12	C
ATOM	9547	C	GLN	C	834	35.187	76.242	39.246	1.00	37.55	C
ATOM	9548	O	GLN	C	834	35.138	77.463	39.272	1.00	37.55	C
ATOM	9549	N	VAL	C	835	35.853	75.521	40.132	1.00	9.55	C
ATOM	9550	CA	VAL	C	835	36.578	76.157	41.199	1.00	9.55	C
ATOM	9551	CB	VAL	C	835	36.994	75.115	42.196	1.00	16.09	C
ATOM	9552	CG1	VAL	C	835	37.661	75.777	43.396	1.00	16.09	C
ATOM	9553	CG2	VAL	C	835	35.777	74.304	42.597	1.00	16.09	C
ATOM	9554	C	VAL	C	835	37.820	76.863	40.616	1.00	9.55	C
ATOM	9555	O	VAL	C	835	38.775	76.217	40.169	1.00	9.55	C
ATOM	9556	N	GLY	C	836	37.803	78.191	40.626	1.00	25.08	C
ATOM	9557	CA	GLY	C	836	38.901	78.974	40.086	1.00	25.08	C
ATOM	9558	C	GLY	C	836	38.199	80.124	39.413	1.00	25.08	C
ATOM	9559	O	GLY	C	836	37.379	80.798	40.043	1.00	25.08	C
ATOM	9560	N	ASP	C	837	38.502	80.355	38.144	1.00	24.55	C
ATOM	9561	CA	ASP	C	837	37.841	81.405	37.351	1.00	24.55	C
ATOM	9562	CB	ASP	C	837	36.629	80.804	36.614	1.00	59.95	C
ATOM	9563	CG	ASP	C	837	36.406	79.310	36.916	1.00	59.95	C
ATOM	9564	OD1	ASP	C	837	35.493	78.722	36.298	1.00	59.95	C
ATOM	9565	OD2	ASP	C	837	37.117	78.711	37.754	1.00	59.95	C
ATOM	9566	C	ASP	C	837	37.391	82.715	38.038	1.00	24.55	C
ATOM	9567	O	ASP	C	837	36.486	82.723	38.880	1.00	24.55	C
ATOM	9568	N	LYS	C	838	38.016	83.826	37.654	1.00	41.85	C
ATOM	9569	CA	LYS	C	838	37.662	85.126	38.215	1.00	41.85	C
ATOM	9570	CB	LYS	C	838	38.535	86.226	37.599	1.00	53.43	C
ATOM	9571	CG	LYS	C	838	39.899	86.354	38.250	1.00	53.43	C
ATOM	9572	CD	LYS	C	838	40.838	87.249	37.462	1.00	53.43	C
ATOM	9573	CE	LYS	C	838	40.427	88.704	37.500	1.00	53.43	C
ATOM	9574	NZ	LYS	C	838	41.269	89.528	36.569	1.00	53.43	C
ATOM	9575	C	LYS	C	838	36.184	85.424	37.952	1.00	41.85	C
ATOM	9576	O	LYS	C	838	35.688	85.190	36.845	1.00	41.85	C
ATOM	9577	N	LEU	C	839	35.480	85.946	38.960	1.00	17.69	C
ATOM	9578	CA	LEU	C	839	34.070	86.246	38.791	1.00	17.69	C
ATOM	9579	CB	LEU	C	839	33.275	85.643	39.936	1.00	20.55	C
ATOM	9580	CG	LEU	C	839	32.093	84.833	39.411	1.00	20.55	C
ATOM	9581	CD1	LEU	C	839	32.491	84.172	38.102	1.00	20.55	C
ATOM	9582	CD2	LEU	C	839	31.654	83.798	40.442	1.00	20.55	C
ATOM	9583	C	LEU	C	839	33.750	87.715	38.648	1.00	17.69	C
ATOM	9584	O	LEU	C	839	32.777	88.067	38.013	1.00	17.69	C
ATOM	9585	N	ALA	C	840	34.569	88.559	39.250	1.00	14.32	C
ATOM	9586	CA	ALA	C	840	34.428	90.013	39.192	1.00	14.32	C
ATOM	9587	CB	ALA	C	840	35.651	90.590	38.514	1.00	78.31	C
ATOM	9588	C	ALA	C	840	33.178	90.666	38.584	1.00	14.32	C
ATOM	9589	O	ALA	C	840	32.643	90.225	37.566	1.00	14.32	C
ATOM	9590	N	ASN	C	841	32.754	91.770	39.195	1.00	36.59	C
ATOM	9591	CA	ASN	C	841	31.582	92.514	38.733	1.00	36.59	C
ATOM	9592	CB	ASN	C	841	30.602	92.699	39.875	1.00	16.19	C
ATOM	9593	CG	ASN	C	841	31.234	93.358	41.057	1.00	16.19	C
ATOM	9594	OD1	ASN	C	841	30.674	93.327	42.144	1.00	16.19	C
ATOM	9595	ND2	ASN	C	841	32.410	93.958	40.863	1.00	16.19	C
ATOM	9596	C	ASN	C	841	31.946	93.881	38.187	1.00	36.59	C
ATOM	9597	O	ASN	C	841	33.083	94.112	37.808	1.00	36.59	C
ATOM	9598	N	ARG	C	842	30.978	94.793	38.171	1.00	31.18	C
ATOM	9599	CA	ARG	C	842	31.207	96.138	37.646	1.00	31.18	C
ATOM	9600	CB	ARG	C	842	29.885	96.764	37.215	1.00	36.79	C
ATOM	9601	CG	ARG	C	842	29.286	96.115	36.003	1.00	36.79	C
ATOM	9602	CD	ARG	C	842	27.890	96.610	35.763	1.00	36.79	C
ATOM	9603	NE	ARG	C	842	27.016	96.327	36.894	1.00	36.79	C
ATOM	9604	CZ	ARG	C	842	25.725	96.630	36.910	1.00	36.79	C
ATOM	9605	NH1	ARG	C	942	25.190	97.219	35.852	1.00	36.79	C
ATOM	9606	NH2	ARG	C	842	24.974	96.343	37.967	1.00	36.79	C
ATOM	9607	C	ARG	C	842	31.912	97.083	38.606	1.00	31.18	C
ATOM	9608	O	ARG	C	842	32.655	97.962	38.177	1.00	31.18	C
ATOM	9609	N	HIS	C	843	31.668	96.909	39.901	1.00	15.36	C
ATOM	9610	CA	HIS	C	843	32.284	97.751	40.914	1.00	15.36	C
ATOM	9611	CB	HIS	C	843	31.318	97.975	42.065	1.00	20.07	C
ATOM	9612	CG	HIS	C	843	29.971	98.462	41.639	1.00	20.07	C
ATOM	9613	CD2	HIS	C	843	28.730	98.015	41.937	1.00	20.07	C
ATOM	9614	ND1	HIS	C	843	29.797	99.567	40.834	1.00	20.07	C
ATOM	9615	CE1	HIS	C	843	28.507	99.785	40.656	1.00	20.07	C
ATOM	9616	NE2	HIS	C	843	27.837	98.857	41.316	1.00	20.07	C
ATOM	9617	C	HIS	C	843	33.521	97.036	41.422	1.00	15.36	C
ATOM	9618	O	HIS	C	843	33.739	96.903	42.617	1.00	15.36	C
ATOM	9619	N	GLY	C	844	34.324	96.555	40.491	1.00	24.47	C
ATOM	9620	CA	GLY	C	844	35.539	95.855	40.850	1.00	24.47	C
ATOM	9621	C	GLY	C	844	35.520	94.975	42.089	1.00	24.47	C
ATOM	9622	O	GLY	C	844	36.492	94.994	42.837	1.00	24.47	C

ATOM	9623	N	ASN	C	845	34.464	94.203	42.337	1.00	7.29	C
ATOM	9624	CA	ASN	C	845	34.507	93.357	43.524	1.00	7.29	C
ATOM	9625	CB	ASN	C	845	33.149	93.291	44.212	1.00	47.87	C
ATOM	9626	CG	ASN	C	845	33.268	92.875	45.664	1.00	47.87	C
ATOM	9627	OD1	ASN	C	845	33.543	91.710	45.967	1.00	47.87	C
ATOM	9628	ND2	ASN	C	845	33.088	93.833	46.573	1.00	47.87	C
ATOM	9629	C	ASN	C	845	35.024	91.940	43.228	1.00	7.29	C
ATOM	9630	O	ASN	C	845	34.633	90.952	43.882	1.00	7.29	C
ATOM	9631	N	LYS	C	846	35.939	91.888	42.257	1.00	9.29	C
ATOM	9632	CA	LYS	C	846	36.598	90.682	41.768	1.00	9.29	C
ATOM	9633	CB	LYS	C	846	37.791	91.103	40.914	1.00	51.12	C
ATOM	9634	CG	LYS	C	846	38.785	92.033	41.613	1.00	51.12	C
ATOM	9635	CD	LYS	C	846	39.735	91.294	42.568	1.00	51.12	C
ATOM	9636	CE	LYS	C	846	41.023	92.086	42.781	1.00	51.12	C
ATOM	9637	NZ	LYS	C	846	41.715	92.422	41.490	1.00	51.12	C
ATOM	9638	C	LYS	C	846	37.054	89.663	42.804	1.00	9.29	C
ATOM	9639	O	LYS	C	846	37.600	90.023	43.842	1.00	9.29	C
ATOM	9640	N	GLY	C	847	36.847	88.385	42.496	1.00	48.33	C
ATOM	9641	CA	GLY	C	847	37.238	87.307	43.395	1.00	48.33	C
ATOM	9642	C	GLY	C	847	37.167	85.970	42.673	1.00	48.33	C
ATOM	9643	O	GLY	C	847	36.453	85.849	41.670	1.00	48.33	C
ATOM	9644	N	VAL	C	848	37.893	84.966	43.164	1.00	41.93	C
ATOM	9645	CA	VAL	C	848	37.901	83.646	42.519	1.00	41.93	C
ATOM	9646	CB	VAL	C	848	39.305	83.025	42.527	1.00	26.52	C
ATOM	9647	CG1	VAL	C	848	39.875	83.044	43.918	1.00	26.52	C
ATOM	9648	CG2	VAL	C	848	39.237	81.604	42.063	1.00	26.52	C
ATOM	9649	C	VAL	C	848	36.968	82.666	43.203	1.00	41.93	C
ATOM	9650	O	VAL	C	848	36.833	82.692	44.434	1.00	41.93	C
ATOM	9651	N	VAL	C	849	36.344	81.790	42.413	1.00	19.39	C
ATOM	9652	CA	VAL	C	849	35.413	80.799	42.967	1.00	19.39	C
ATOM	9653	CB	VAL	C	849	34.630	80.056	41.884	1.00	7.09	C
ATOM	9654	CG1	VAL	C	849	33.978	78.865	42.501	1.00	7.09	C
ATOM	9655	CG2	VAL	C	849	33.578	80.954	41.248	1.00	7.09	C
ATOM	9656	C	VAL	C	849	36.064	79.707	43.808	1.00	19.39	C
ATOM	9657	O	VAL	C	849	36.707	78.810	43.261	1.00	19.39	C
ATOM	9658	N	ALA	C	850	35.880	79.773	45.125	1.00	18.37	C
ATOM	9659	CA	ALA	C	850	36.424	78.764	46.028	1.00	18.37	C
ATOM	9660	CB	ALA	C	850	36.501	79.307	47.446	1.00	49.09	C
ATOM	9661	C	ALA	C	850	35.455	77.584	45.951	1.00	18.37	C
ATOM	9662	O	ALA	C	850	35.198	77.103	44.862	1.00	18.37	C
ATOM	9663	N	LYS	C	851	34.906	77.128	47.078	1.00	34.64	C
ATOM	9664	CA	LYS	C	851	33.952	76.008	47.070	1.00	34.64	C
ATOM	9665	CB	LYS	C	851	33.610	75.601	48.494	1.00	58.68	C
ATOM	9666	CG	LYS	C	851	32.571	74.521	48.569	1.00	58.68	C
ATOM	9667	CD	LYS	C	851	32.523	73.929	49.956	1.00	58.68	C
ATOM	9668	CE	LYS	C	851	33.809	73.163	50.282	1.00	58.68	C
ATOM	9669	NZ	LYS	C	851	33.884	72.688	51.703	1.00	58.68	C
ATOM	9670	C	LYS	C	851	32.650	76.330	46.315	1.00	34.64	C
ATOM	9671	O	LYS	C	851	32.371	77.497	46.016	1.00	34.64	C
ATOM	9672	N	ILE	C	852	31.866	75.295	45.994	1.00	27.52	C
ATOM	9673	CA	ILE	C	852	30.588	75.470	45.287	1.00	27.52	C
ATOM	9674	CB	ILE	C	852	30.777	75.306	43.795	1.00	24.22	C
ATOM	9675	CG2	ILE	C	852	31.297	73.931	43.488	1.00	24.22	C
ATOM	9676	CG1	ILE	C	852	29.473	75.588	43.079	1.00	24.22	C
ATOM	9677	CD	ILE	C	852	29.642	75.618	41.572	1.00	24.22	C
ATOM	9678	C	ILE	C	852	29.536	74.480	45.812	1.00	27.52	C
ATOM	9679	O	ILE	C	852	29.545	73.287	45.495	1.00	27.52	C
ATOM	9680	N	LEU	C	853	28.642	75.028	46.635	1.00	36.16	C
ATOM	9681	CA	LEU	C	853	27.572	74.321	47.336	1.00	36.16	C
ATOM	9682	CB	LEU	C	853	27.129	75.165	48.532	1.00	26.55	C
ATOM	9683	CG	LEU	C	853	27.737	74.884	49.906	1.00	26.55	C
ATOM	9684	CD1	LEU	C	853	29.124	74.292	49.792	1.00	26.55	C
ATOM	9685	CD2	LEU	C	853	27.756	76.172	50.679	1.00	26.55	C
ATOM	9686	C	LEU	C	853	26.330	73.919	46.568	1.00	36.16	C
ATOM	9687	O	LEU	C	853	26.056	74.421	45.486	1.00	36.16	C
ATOM	9688	N	PRO	C	854	25.552	73.000	47.148	1.00	33.52	C
ATOM	9689	CD	PRO	C	854	26.021	72.171	48.275	1.00	11.97	C
ATOM	9690	CA	PRO	C	854	24.307	72.465	46.602	1.00	33.52	C
ATOM	9691	CB	PRO	C	854	24.311	71.041	47.116	1.00	11.97	C
ATOM	9692	CG	PRO	C	854	24.864	71.231	48.518	1.00	11.97	C
ATOM	9693	C	PRO	C	854	23.150	73.247	47.186	1.00	33.52	C
ATOM	9694	O	PRO	C	854	23.273	73.770	48.293	1.00	33.52	C
ATOM	9695	N	VAL	C	855	22.035	73.319	46.458	1.00	14.10	C
ATOM	9696	CA	VAL	C	855	20.834	74.025	46.927	1.00	14.10	C
ATOM	9697	CB	VAL	C	855	19.641	73.738	46.023	1.00	16.59	C
ATOM	9698	CG1	VAL	C	855	19.706	74.570	44.773	1.00	16.59	C
ATOM	9699	CG2	VAL	C	855	19.668	72.283	45.642	1.00	16.59	C
ATOM	9700	C	VAL	C	855	20.482	73.533	48.326	1.00	14.10	C
ATOM	9701	O	VAL	C	855	20.052	74.310	49.171	1.00	14.10	C
ATOM	9702	N	GLU	C	856	20.670	72.234	48.555	1.00	35.45	C
ATOM	9703	CA	GLU	C	856	20.402	71.619	49.852	1.00	35.45	C
ATOM	9704	CB	GLU	C	856	21.115	70.282	49.971	1.00	62.29	C
ATOM	9705	CG	GLU	C	856	20.921	69.332	48.827	1.00	62.29	C
ATOM	9706	CD	GLU	C	856	21.821	68.125	48.981	1.00	62.29	C

ATOM	9707	OE1	GLU	C	856	21.750	67.452	50.038	1.00	62.29	C
ATOM	9708	OE2	GLU	C	856	22.609	67.855	48.051	1.00	62.29	C
ATOM	9709	C	GLU	C	856	20.924	72.508	50.969	1.00	35.45	C
ATOM	9710	O	GLU	C	856	20.382	72.534	52.067	1.00	35.45	C
ATOM	9711	N	ASP	C	857	22.015	73.203	50.696	1.00	52.98	C
ATOM	9712	CA	ASP	C	857	22.582	74.101	51.676	1.00	52.98	C
ATOM	9713	CB	ASP	C	857	24.080	73.858	51.793	1.00	31.39	C
ATOM	9714	CG	ASP	C	857	24.387	72.454	52.271	1.00	31.39	C
ATOM	9715	OD1	ASP	C	857	23.670	71.995	53.181	1.00	31.39	C
ATOM	9716	OD2	ASP	C	857	25.330	71.810	51.753	1.00	31.39	C
ATOM	9717	C	ASP	C	857	22.267	75.521	51.230	1.00	52.98	C
ATOM	9718	O	ASP	C	857	21.123	75.812	50.867	1.00	52.98	C
ATOM	9719	N	MET	C	858	23.259	76.404	51.230	1.00	35.76	C
ATOM	9720	CA	MET	C	858	23.011	77.787	50.830	1.00	35.76	C
ATOM	9721	CB	MET	C	858	22.194	77.820	49.530	1.00	16.55	C
ATOM	9722	CG	MET	C	858	22.960	77.257	48.370	1.00	16.55	C
ATOM	9723	SD	MET	C	858	24.634	77.926	48.386	1.00	16.55	C
ATOM	9724	CE	MET	C	858	24.321	79.453	47.528	1.00	16.55	C
ATOM	9725	C	MET	C	858	22.265	78.517	51.945	1.00	35.76	C
ATOM	9726	O	MET	C	858	22.374	78.155	53.116	1.00	35.76	C
ATOM	9727	N	PRO	C	859	21.546	79.589	51.607	1.00	59.65	C
ATOM	9728	CD	PRO	C	859	21.970	80.618	50.641	1.00	69.85	C
ATOM	9729	CA	PRO	C	859	20.859	80.221	52.725	1.00	59.65	C
ATOM	9730	CB	PRO	C	859	21.655	81.502	52.896	1.00	69.85	C
ATOM	9731	CG	PRO	C	859	21.903	81.910	51.466	1.00	69.85	C
ATOM	9732	C	PRO	C	859	19.364	80.460	52.439	1.00	59.65	C
ATOM	9733	O	PRO	C	859	18.931	81.603	52.283	1.00	59.65	C
ATOM	9734	N	ALA	C	860	18.588	79.375	52.379	1.00	57.41	C
ATOM	9735	CA	ALA	C	860	17.142	79.431	52.115	1.00	57.41	C
ATOM	9736	CB	ALA	C	860	16.391	78.318	52.933	1.00	5.07	C
ATOM	9737	C	ALA	C	860	16.553	80.793	52.452	1.00	57.41	C
ATOM	9738	O	ALA	C	860	16.683	81.263	53.580	1.00	57.41	C
ATOM	9739	N	LEU	C	861	15.934	81.450	51.479	1.00	31.25	C
ATOM	9740	CA	LEU	C	861	15.300	82.726	51.778	1.00	31.25	C
ATOM	9741	CB	LEU	C	861	14.834	83.423	50.498	1.00	26.02	C
ATOM	9742	CG	LEU	C	861	14.736	84.960	50.547	1.00	26.02	C
ATOM	9743	CD1	LEU	C	861	16.093	85.533	50.919	1.00	26.02	C
ATOM	9744	CD2	LEU	C	861	14.258	85.528	49.209	1.00	26.02	C
ATOM	9745	C	LEU	C	861	14.107	82.209	52.576	1.00	31.25	C
ATOM	9746	O	LEU	C	861	13.994	80.998	52.771	1.00	31.25	C
ATOM	9747	N	PRO	C	862	13.202	83.085	53.048	1.00	45.19	C
ATOM	9748	CD	PRO	C	862	13.204	84.553	53.087	1.00	49.83	C
ATOM	9749	CA	PRO	C	862	12.066	82.568	53.815	1.00	45.19	C
ATOM	9750	CB	PRO	C	862	11.422	83.830	54.363	1.00	49.83	C
ATOM	9751	CG	PRO	C	862	11.756	84.844	53.340	1.00	49.83	C
ATOM	9752	C	PRO	C	862	11.056	81.664	53.121	1.00	45.19	C
ATOM	9753	O	PRO	C	862	10.532	80.740	53.747	1.00	45.19	C
ATOM	9754	N	ASP	C	863	10.789	81.916	51.840	1.00	19.47	C
ATOM	9755	CA	ASP	C	863	9.811	81.120	51.090	1.00	19.47	C
ATOM	9756	CB	ASP	C	863	8.980	82.036	50.215	1.00	32.30	C
ATOM	9757	CG	ASP	C	863	9.775	82.584	49.074	1.00	32.30	C
ATOM	9758	OD1	ASP	C	863	9.360	83.601	48.496	1.00	32.30	C
ATOM	9759	OD2	ASP	C	863	10.822	81.990	48.746	1.00	32.30	C
ATOM	9760	C	ASP	C	863	10.467	80.091	50.192	1.00	19.47	C
ATOM	9761	O	ASP	C	863	9.867	79.626	49.228	1.00	19.47	C
ATOM	9762	N	GLY	C	864	11.710	79.757	50.497	1.00	53.01	C
ATOM	9763	CA	GLY	C	864	12.434	78.805	49.680	1.00	53.01	C
ATOM	9764	C	GLY	C	864	13.495	79.544	48.891	1.00	53.01	C
ATOM	9765	O	GLY	C	864	14.421	80.116	49.464	1.00	53.01	C
ATOM	9766	N	THR	C	865	13.346	79.549	47.574	1.00	38.13	C
ATOM	9767	CA	THR	C	865	14.291	80.218	46.694	1.00	38.13	C
ATOM	9768	CB	THR	C	865	13.911	81.698	46.462	1.00	56.51	C
ATOM	9769	OG1	THR	C	865	13.730	82.342	47.726	1.00	56.51	C
ATOM	9770	CG2	THR	C	865	12.630	81.811	45.633	1.00	56.51	C
ATOM	9771	C	THR	C	865	15.696	80.181	47.269	1.00	38.13	C
ATOM	9772	O	THR	C	865	16.038	80.983	48.133	1.00	38.13	C
ATOM	9773	N	PRO	C	866	16.536	79.250	46.793	1.00	19.58	C
ATOM	9774	CD	PRO	C	866	16.488	78.478	45.538	1.00	57.39	C
ATOM	9775	CA	PRO	C	866	17.886	79.219	47.345	1.00	19.58	C
ATOM	9776	CB	PRO	C	866	18.512	78.048	46.620	1.00	57.39	C
ATOM	9777	CG	PRO	C	866	17.971	78.243	45.249	1.00	57.39	C
ATOM	9778	C	PRO	C	866	18.506	80.515	46.905	1.00	19.58	C
ATOM	9779	O	PRO	C	866	17.885	81.292	46.180	1.00	19.58	C
ATOM	9780	N	VAL	C	867	19.729	80.756	47.332	1.00	52.39	C
ATOM	9781	CA	VAL	C	867	20.383	81.963	46.907	1.00	52.39	C
ATOM	9782	CB	VAL	C	867	21.013	82.694	48.090	1.00	22.98	C
ATOM	9783	CG1	VAL	C	867	21.695	83.958	47.613	1.00	22.98	C
ATOM	9784	CG2	VAL	C	867	19.940	83.057	49.072	1.00	22.98	C
ATOM	9785	C	VAL	C	867	21.429	81.595	45.866	1.00	52.39	C
ATOM	9786	O	VAL	C	867	22.191	80.646	46.035	1.00	52.39	C
ATOM	9787	N	ASP	C	868	21.426	82.334	44.767	1.00	36.26	C
ATOM	9788	CA	ASP	C	868	22.368	82.101	43.706	1.00	36.26	C
ATOM	9789	CB	ASP	C	868	22.234	83.169	42.622	1.00	64.66	C
ATOM	9790	CG	ASP	C	868	21.019	82.961	41.747	1.00	64.66	C

ATOM	9791	OD1	ASP	C	368	20.744	81.796	41.397	1.00	64.66	C
ATOM	9792	OD2	ASP	C	868	20.346	83.954	41.394	1.00	64.66	C
ATOM	9793	C	ASP	C	868	23.792	82.102	44.236	1.00	36.26	C
ATOM	9794	O	ASP	C	868	24.351	81.043	44.510	1.00	36.26	C
ATOM	9795	N	VAL	C	869	24.379	83.286	44.407	1.00	20.02	C
ATOM	9796	CA	VAL	C	869	25.764	83.361	44.849	1.00	20.02	C
ATOM	9797	CB	VAL	C	869	26.652	83.772	43.688	1.00	36.58	C
ATOM	9798	CG1	VAL	C	869	27.459	85.022	44.042	1.00	36.58	C
ATOM	9799	CG2	VAL	C	869	27.536	82.576	43.299	1.00	36.58	C
ATOM	9800	C	VAL	C	869	26.044	84.269	46.016	1.00	20.02	C
ATOM	9801	O	VAL	C	869	25.534	85.374	46.076	1.00	20.02	C
ATOM	9802	N	ILE	C	870	26.878	83.783	46.929	1.00	44.04	C
ATOM	9803	CA	ILE	C	870	27.270	84.494	48.143	1.00	44.04	C
ATOM	9804	CB	ILE	C	870	27.496	83.509	49.294	1.00	15.22	C
ATOM	9805	CG2	ILE	C	870	28.318	84.174	50.408	1.00	15.22	C
ATOM	9806	CG1	ILE	C	870	26.174	82.957	49.795	1.00	15.22	C
ATOM	9807	CD	ILE	C	870	26.377	81.914	50.899	1.00	15.22	C
ATOM	9808	C	ILE	C	870	28.590	85.241	47.981	1.00	44.04	C
ATOM	9809	O	ILE	C	870	29.575	84.661	47.530	1.00	44.04	C
ATOM	9810	N	LEU	C	871	28.609	86.514	48.372	1.00	16.83	C
ATOM	9811	CA	LEU	C	871	29.818	87.335	48.325	1.00	16.83	C
ATOM	9812	CB	LEU	C	871	29.553	88.652	47.580	1.00	35.83	C
ATOM	9813	CG	LEU	C	871	29.890	88.781	46.078	1.00	35.83	C
ATOM	9814	CD1	LEU	C	871	29.426	87.574	45.300	1.00	35.83	C
ATOM	9815	CD2	LEU	C	871	29.241	90.029	45.514	1.00	35.83	C
ATOM	9816	C	LEU	C	871	30.179	87.590	49.792	1.00	16.83	C
ATOM	9817	O	LEU	C	871	29.319	87.498	50.671	1.00	16.83	C
ATOM	9818	N	ASN	C	872	31.443	87.895	50.069	1.00	57.66	C
ATOM	9819	CA	ASN	C	872	31.867	88.127	51.449	1.00	57.66	C
ATOM	9820	CB	ASN	C	872	33.271	87.615	51.690	1.00	30.76	C
ATOM	9821	CG	ASN	C	872	33.717	87.867	53.101	1.00	30.76	C
ATOM	9822	OD1	ASN	C	872	32.923	88.300	53.946	1.00	30.76	C
ATOM	9823	ND2	ASN	C	872	34.984	87.588	53.381	1.00	30.76	C
ATOM	9824	C	ASN	C	872	31.829	89.564	51.931	1.00	57.66	C
ATOM	9825	O	ASN	C	872	32.784	90.315	51.759	1.00	57.66	C
ATOM	9826	N	PRO	C	873	30.756	89.930	52.630	1.00	24.13	C
ATOM	9827	CD	PRO	C	873	30.040	88.951	53.463	1.00	100.07	C
ATOM	9828	CA	PRO	C	873	30.552	91.276	53.164	1.00	24.13	C
ATOM	9829	CB	PRO	C	873	29.469	91.067	54.208	1.00	100.07	C
ATOM	9830	CG	PRO	C	873	29.821	89.726	54.747	1.00	100.07	C
ATOM	9831	C	PRO	C	873	31.804	91.791	53.804	1.00	24.13	C
ATOM	9832	O	PRO	C	873	32.051	92.977	53.801	1.00	24.13	C
ATOM	9833	N	LEU	C	874	32.592	90.893	54.371	1.00	33.95	C
ATOM	9834	CA	LEU	C	874	33.804	91.322	55.039	1.00	33.95	C
ATOM	9835	CB	LEU	C	874	34.558	90.139	55.634	1.00	49.91	C
ATOM	9836	CG	LEU	C	874	35.833	90.534	56.372	1.00	49.91	C
ATOM	9837	CD1	LEU	C	874	35.580	91.720	57.284	1.00	49.91	C
ATOM	9838	CD2	LEU	C	874	36.313	89.342	57.147	1.00	49.91	C
ATOM	9839	C	LEU	C	874	34.713	92.074	54.115	1.00	33.95	C
ATOM	9840	O	LEU	C	874	34.532	92.041	52.903	1.00	33.95	C
ATOM	9841	N	GLY	C	875	35.688	92.749	54.716	1.00	57.62	C
ATOM	9842	CA	GLY	C	875	36.644	93.538	53.973	1.00	57.62	C
ATOM	9843	C	GLY	C	875	36.093	94.038	52.655	1.00	57.62	C
ATOM	9844	O	GLY	C	875	35.702	95.206	52.526	1.00	57.62	C
ATOM	9845	N	VAL	C	876	36.050	93.117	51.694	1.00	49.45	C
ATOM	9846	CA	VAL	C	876	35.597	93.353	50.332	1.00	49.45	C
ATOM	9847	CB	VAL	C	876	34.764	92.167	49.811	1.00	100.07	C
ATOM	9848	CG1	VAL	C	876	34.738	92.195	48.294	1.00	100.07	C
ATOM	9849	CG2	VAL	C	876	35.366	90.848	50.294	1.00	100.07	C
ATOM	9850	C	VAL	C	876	34.852	94.661	50.075	1.00	49.45	C
ATOM	9851	O	VAL	C	876	35.052	95.285	49.022	1.00	49.45	C
ATOM	9852	N	PRO	C	877	33.942	95.070	50.981	1.00	75.50	C
ATOM	9853	CD	PRO	C	877	33.070	94.231	51.819	1.00	39.36	C
ATOM	9854	CA	PRO	C	877	33.283	96.345	50.681	1.00	75.50	C
ATOM	9855	CB	PRO	C	877	31.821	96.081	51.042	1.00	39.36	C
ATOM	9856	CG	PRO	C	877	31.947	95.197	52.210	1.00	39.36	C
ATOM	9857	C	PRO	C	877	33.904	97.499	51.482	1.00	75.50	C
ATOM	9858	O	PRO	C	877	34.278	98.523	50.909	1.00	75.50	C
ATOM	9859	N	SER	C	878	34.058	97.324	52.791	1.00	21.99	C
ATOM	9860	CA	SER	C	878	34.611	98.394	53.618	1.00	21.99	C
ATOM	9861	CB	SER	C	878	34.824	97.909	55.024	1.00	16.84	C
ATOM	9862	OG	SER	C	878	35.856	96.954	54.973	1.00	16.84	C
ATOM	9863	C	SER	C	878	35.943	98.894	53.090	1.00	21.99	C
ATOM	9864	O	SER	C	878	35.992	99.890	52.368	1.00	21.99	C
ATOM	9865	N	ARG	C	879	37.013	98.191	53.470	1.00	38.33	C
ATOM	9866	CA	ARG	C	879	38.391	98.508	53.087	1.00	38.33	C
ATOM	9867	CB	ARG	C	879	39.207	97.232	52.927	1.00	66.17	C
ATOM	9868	CG	ARG	C	879	38.944	96.148	53.944	1.00	66.17	C
ATOM	9869	CD	ARG	C	879	39.707	94.908	53.531	1.00	66.17	C
ATOM	9870	NE	ARG	C	879	40.075	94.062	54.658	1.00	66.17	C
ATOM	9871	CZ	ARG	C	879	40.983	93.094	54.579	1.00	66.17	C
ATOM	9872	NH1	ARG	C	879	41.597	92.868	53.425	1.00	66.17	C
ATOM	9873	NH2	ARG	C	879	41.283	92.358	55.648	1.00	66.17	C
ATOM	9874	C	ARG	C	879	38.452	99.221	51.756	1.00	38.33	C

ATOM	9875	O	ARG	C	879	38.993	100.323	51.633	1.00	38.33	C
ATOM	9876	N	MET	C	880	37.871	98.547	50.770	1.00	35.34	C
ATOM	9877	CA	MET	C	880	37.830	98.960	49.384	1.00	35.34	C
ATOM	9878	CB	MET	C	880	37.513	97.705	48.579	1.00	95.06	C
ATOM	9879	CG	MET	C	880	37.955	96.454	49.345	1.00	95.06	C
ATOM	9880	SD	MET	C	880	37.783	94.867	48.513	1.00	95.06	C
ATOM	9881	CE	MET	C	880	39.395	94.119	48.842	1.00	95.06	C
ATOM	9882	C	MET	C	880	36.913	100.135	48.993	1.00	35.34	C
ATOM	9883	O	MET	C	880	37.002	100.636	47.865	1.00	35.34	C
ATOM	9884	N	ASN	C	881	36.045	100.576	49.907	1.00	7.65	C
ATOM	9885	CA	ASN	C	881	35.136	101.713	49.658	1.00	7.65	C
ATOM	9886	CB	ASN	C	881	35.912	103.058	49.617	1.00	29.82	C
ATOM	9887	CG	ASN	C	881	37.019	103.188	50.695	1.00	29.82	C
ATOM	9888	OD1	ASN	C	881	37.795	104.154	50.679	1.00	29.82	C
ATOM	9889	ND2	ASN	C	881	37.091	102.232	51.617	1.00	29.82	C
ATOM	9890	C	ASN	C	881	34.362	101.601	48.330	1.00	7.65	C
ATOM	9891	O	ASN	C	881	34.843	102.077	47.316	1.00	7.65	C
ATOM	9892	N	LEU	C	882	33.175	101.001	48.323	1.00	45.54	C
ATOM	9893	CA	LEU	C	882	32.390	100.878	47.085	1.00	45.54	C
ATOM	9894	CB	LEU	C	882	32.932	99.735	46.223	1.00	13.17	C
ATOM	9895	CG	LEU	C	882	33.340	98.477	46.999	1.00	13.17	C
ATOM	9896	CD1	LEU	C	882	33.223	97.214	46.156	1.00	13.17	C
ATOM	9897	CD2	LEU	C	882	34.756	98.670	47.469	1.00	13.17	C
ATOM	9898	C	LEU	C	882	30.889	100.644	47.301	1.00	45.54	C
ATOM	9899	O	LEU	C	882	30.497	99.632	47.869	1.00	45.54	C
ATOM	9900	N	GLY	C	883	30.053	101.574	46.845	1.00	28.44	C
ATOM	9901	CA	GLY	C	883	28.620	101.407	46.979	1.00	28.44	C
ATOM	9902	C	GLY	C	883	28.130	100.495	45.856	1.00	28.44	C
ATOM	9903	O	GLY	C	883	27.422	100.929	44.934	1.00	28.44	C
ATOM	9904	N	GLN	C	884	28.552	99.229	45.889	1.00	100.07	C
ATOM	9905	CA	GLN	C	884	28.121	98.234	44.894	1.00	100.07	C
ATOM	9906	CB	GLN	C	884	28.981	96.962	44.971	1.00	20.42	C
ATOM	9907	CG	GLN	C	884	29.085	96.368	46.371	1.00	20.42	C
ATOM	9908	CD	GLN	C	884	30.264	95.417	46.546	1.00	20.42	C
ATOM	9909	OE1	GLN	C	884	30.266	94.296	46.025	1.00	20.42	C
ATOM	9910	NE2	GLN	C	884	31.275	95.862	47.291	1.00	20.42	C
ATOM	9911	C	GLN	C	884	26.743	97.922	45.400	1.00	100.07	C
ATOM	9912	O	GLN	C	884	25.778	97.745	44.656	1.00	100.07	C
ATOM	9913	N	ILE	C	885	26.707	97.877	46.719	1.00	48.67	C
ATOM	9914	CA	ILE	C	885	25.539	97.624	47.502	1.00	48.67	C
ATOM	9915	CB	ILE	C	885	25.816	98.135	48.890	1.00	5.07	C
ATOM	9916	CG2	ILE	C	885	24.652	97.826	49.810	1.00	5.07	C
ATOM	9917	CG1	ILE	C	885	27.111	97.499	49.390	1.00	5.07	C
ATOM	9918	CD	ILE	C	885	27.175	95.993	49.180	1.00	5.07	C
ATOM	9919	C	ILE	C	885	24.287	98.271	46.921	1.00	48.67	C
ATOM	9920	O	ILE	C	885	23.231	97.640	46.864	1.00	48.67	C
ATOM	9921	N	LEU	C	886	24.395	99.520	46.483	1.00	44.11	C
ATOM	9922	CA	LEU	C	886	23.240	100.186	45.901	1.00	44.11	C
ATOM	9923	CB	LEU	C	886	23.497	101.683	45.749	1.00	20.52	C
ATOM	9924	CG	LEU	C	886	23.731	102.478	47.042	1.00	20.52	C
ATOM	9925	CD1	LEU	C	886	24.076	103.893	46.651	1.00	20.52	C
ATOM	9926	CD2	LEU	C	886	22.520	102.459	47.950	1.00	20.52	C
ATOM	9927	C	LEU	C	886	22.914	99.554	44.553	1.00	44.11	C
ATOM	9928	O	LEU	C	886	22.866	100.208	43.516	1.00	44.11	C
ATOM	9929	N	GLU	C	887	22.707	98.249	44.603	1.00	46.04	C
ATOM	9930	CA	GLU	C	887	22.359	97.446	43.452	1.00	46.04	C
ATOM	9931	CB	GLU	C	887	23.604	96.979	42.697	1.00	47.41	C
ATOM	9932	CG	GLU	C	887	23.277	96.054	41.527	1.00	47.41	C
ATOM	9933	CD	GLU	C	887	24.510	95.534	40.793	1.00	47.41	C
ATOM	9934	OE1	GLU	C	887	25.343	96.353	40.346	1.00	47.41	C
ATOM	9935	OE2	GLU	C	887	24.640	94.300	40.651	1.00	47.41	C
ATOM	9936	C	GLU	C	887	21.670	96.256	44.084	1.00	46.04	C
ATOM	9937	O	GLU	C	887	20.512	95.973	43.822	1.00	46.04	C
ATOM	9938	N	THR	C	888	22.400	95.572	44.944	1.00	15.52	C
ATOM	9939	CA	THR	C	888	21.879	94.422	45.646	1.00	15.52	C
ATOM	9940	CB	THR	C	888	22.929	93.960	46.629	1.00	39.97	C
ATOM	9941	OG1	THR	C	888	24.218	94.175	46.049	1.00	39.97	C
ATOM	9942	CG2	THR	C	888	22.750	92.496	46.967	1.00	39.97	C
ATOM	9943	C	THR	C	888	20.596	94.826	46.414	1.00	15.52	C
ATOM	9944	O	THR	C	888	19.844	93.969	46.913	1.00	15.52	C
ATOM	9945	N	HIS	C	889	20.377	96.140	46.537	1.00	46.14	C
ATOM	9946	CA	HIS	C	889	19.202	96.680	47.221	1.00	46.14	C
ATOM	9947	CB	HIS	C	889	19.553	97.940	48.004	1.00	27.47	C
ATOM	9948	CG	HIS	C	889	20.365	97.674	49.238	1.00	27.47	C
ATOM	9949	CD2	HIS	C	889	20.865	96.521	49.748	1.00	27.47	C
ATOM	9950	ND1	HIS	C	889	20.758	98.673	50.105	1.00	27.47	C
ATOM	9951	CE1	HIS	C	889	21.464	98.149	51.092	1.00	27.47	C
ATOM	9952	NE2	HIS	C	889	21.546	96.846	50.900	1.00	27.47	C
ATOM	9953	C	HIS	C	889	18.164	96.984	46.161	1.00	46.14	C
ATOM	9954	O	HIS	C	889	17.050	96.473	46.228	1.00	46.14	C
ATOM	9955	N	LEU	C	890	18.506	97.811	45.177	1.00	12.42	C
ATOM	9956	CA	LEU	C	890	17.556	98.061	44.097	1.00	12.42	C
ATOM	9957	CB	LEU	C	890	17.953	99.282	43.255	1.00	5.07	C
ATOM	9958	CG	LEU	C	890	17.402	99.344	41.815	1.00	5.07	C

ATOM	9959	CD1	LEU	C	890	15.901	99.132	41.832	1.00	5.07	C
ATOM	9960	CD2	LEU	C	890	17.759	100.655	41.155	1.00	5.07	C
ATOM	9961	C	LEU	C	890	17.662	96.782	43.271	1.00	12.42	C
ATOM	9962	O	LEU	C	890	17.508	96.780	42.047	1.00	12.42	C
ATOM	9963	N	GLY	C	891	17.957	95.689	43.977	1.00	80.89	C
ATOM	9964	CA	GLY	C	891	18.101	94.378	43.368	1.00	80.89	C
ATOM	9965	C	GLY	C	891	16.847	93.573	43.603	1.00	80.89	C
ATOM	9966	O	GLY	C	891	16.156	93.221	42.650	1.00	80.89	C
ATOM	9967	N	LEU	C	892	16.552	93.266	44.862	1.00	28.36	C
ATOM	9968	CA	LEU	C	892	15.327	92.537	45.141	1.00	28.36	C
ATOM	9969	CB	LEU	C	892	15.209	92.169	46.621	1.00	22.53	C
ATOM	9970	CG	LEU	C	892	15.498	93.223	47.673	1.00	22.53	C
ATOM	9971	CD1	LEU	C	892	15.167	92.669	49.058	1.00	22.53	C
ATOM	9972	CD2	LEU	C	892	16.968	93.612	47.574	1.00	22.53	C
ATOM	9973	C	LEU	C	892	14.201	93.477	44.730	1.00	28.36	C
ATOM	9974	O	LEU	C	892	13.146	93.049	44.240	1.00	28.36	C
ATOM	9975	N	ALA	C	893	14.435	94.770	44.911	1.00	61.38	C
ATOM	9976	CA	ALA	C	893	13.450	95.767	44.512	1.00	61.38	C
ATOM	9977	CB	ALA	C	893	13.846	97.133	45.041	1.00	75.49	C
ATOM	9978	C	ALA	C	893	13.458	95.759	42.985	1.00	61.38	C
ATOM	9979	O	ALA	C	893	13.635	96.791	42.330	1.00	61.38	C
ATOM	9980	N	GLY	C	894	13.278	94.567	42.434	1.00	25.17	C
ATOM	9981	CA	GLY	C	894	13.289	94.396	41.002	1.00	25.17	C
ATOM	9982	C	GLY	C	894	13.146	92.922	40.706	1.00	25.17	C
ATOM	9983	O	GLY	C	894	12.765	92.526	39.612	1.00	25.17	C
ATOM	9984	N	TYR	C	895	13.484	92.092	41.679	1.00	33.29	C
ATOM	9985	CA	TYR	C	895	13.336	90.658	41.493	1.00	33.29	C
ATOM	9986	CB	TYR	C	895	13.982	89.895	42.654	1.00	53.00	C
ATOM	9987	CG	TYR	C	895	13.958	88.386	42.546	1.00	53.00	C
ATOM	9988	CD1	TYR	C	895	14.226	87.743	41.342	1.00	53.00	C
ATOM	9989	CE1	TYR	C	895	14.276	86.336	41.262	1.00	53.00	C
ATOM	9990	CD2	TYR	C	895	13.732	87.596	43.675	1.00	53.00	C
ATOM	9991	CE2	TYR	C	895	13.779	86.191	43.617	1.00	53.00	C
ATOM	9992	CZ	TYR	C	895	14.052	85.561	42.408	1.00	53.00	C
ATOM	9993	OH	TYR	C	895	14.109	84.172	42.349	1.00	53.00	C
ATOM	9994	C	TYR	C	895	11.830	90.532	41.542	1.00	33.29	C
ATOM	9995	O	TYR	C	895	11.190	90.167	40.558	1.00	33.29	C
ATOM	9996	N	PHE	C	896	11.259	90.905	42.681	1.00	57.33	C
ATOM	9997	CA	PHE	C	896	9.822	90.831	42.866	1.00	57.33	C
ATOM	9998	CB	PHE	C	896	9.481	91.161	44.313	1.00	57.92	C
ATOM	9999	CG	PHE	C	896	10.191	90.289	45.306	1.00	57.92	C
ATOM	10000	CD1	PHE	C	896	11.390	90.696	45.873	1.00	57.92	C
ATOM	10001	CD2	PHE	C	896	9.665	89.050	45.662	1.00	57.92	C
ATOM	10002	CE1	PHE	C	896	12.057	89.882	46.785	1.00	57.92	C
ATOM	10003	CE2	PHE	C	896	10.318	88.226	46.570	1.00	57.92	C
ATOM	10004	CZ	PHE	C	896	11.517	88.641	47.135	1.00	57.92	C
ATOM	10005	C	PHE	C	896	9.025	91.723	41.915	1.00	57.33	C
ATOM	10006	O	PHE	C	896	7.803	91.599	41.825	1.00	57.33	C
ATOM	10007	N	LEU	C	897	9.709	92.615	41.203	1.00	54.76	C
ATOM	10008	CA	LEU	C	897	9.026	93.489	40.253	1.00	54.76	C
ATOM	10009	CB	LEU	C	897	9.285	94.961	40.580	1.00	52.32	C
ATOM	10010	CG	LEU	C	897	8.561	95.498	41.812	1.00	52.32	C
ATOM	10011	CD1	LEU	C	897	9.077	94.773	43.033	1.00	52.32	C
ATOM	10012	CD2	LEU	C	897	8.780	96.996	41.951	1.00	52.32	C
ATOM	10013	C	LEU	C	897	9.437	93.210	38.808	1.00	54.76	C
ATOM	10014	O	LEU	C	897	8.915	93.821	37.868	1.00	54.76	C
ATOM	10015	N	GLY	C	898	10.358	92.272	38.620	1.00	100.02	C
ATOM	10016	CA	GLY	C	398	10.800	91.973	37.274	1.00	100.02	C
ATOM	10017	C	GLY	C	898	11.122	93.283	36.588	1.00	100.02	C
ATOM	10018	O	GLY	C	898	10.993	93.410	35.370	1.00	100.02	C
ATOM	10019	N	GLN	C	899	11.522	94.269	37.389	1.00	60.70	C
ATOM	10020	CA	GLN	C	899	11.874	95.584	36.879	1.00	60.70	C
ATOM	10021	CB	GLN	C	899	11.585	96.674	37.912	1.00	98.42	C
ATOM	10022	CG	GLN	C	899	10.129	96.925	38.210	1.00	98.42	C
ATOM	10023	CD	GLN	C	899	9.872	98.365	38.620	1.00	98.42	C
ATOM	10024	OE1	GLN	C	899	9.825	99.262	37.777	1.00	98.42	C
ATOM	10025	NE2	GLN	C	899	9.717	98.596	39.917	1.00	98.42	C
ATOM	10026	C	GLN	C	899	13.347	95.652	36.502	1.00	60.70	C
ATOM	10027	O	GLN	C	899	14.216	95.137	37.214	1.00	60.70	C
ATOM	10028	N	ARG	C	900	13.609	96.289	35.367	1.00	66.63	C
ATOM	10029	CA	ARG	C	900	14.961	96.471	34.861	1.00	66.63	C
ATOM	10030	CB	ARG	C	900	15.017	96.079	33.387	1.00	100.07	C
ATOM	10031	CG	ARG	C	900	14.205	94.835	33.049	1.00	100.07	C
ATOM	10032	CD	ARG	C	900	14.849	93.561	33.574	1.00	100.07	C
ATOM	10033	NE	ARG	C	900	13.891	92.457	33.624	1.00	100.07	C
ATOM	10034	CZ	ARG	C	900	13.227	91.980	32.574	1.00	100.07	C
ATOM	10035	NH1	ARG	C	900	13.411	92.504	31.368	1.00	100.07	C
ATOM	10036	NH2	ARG	C	900	12.366	90.982	32.731	1.00	100.07	C
ATOM	10037	C	ARG	C	900	15.194	97.968	35.019	1.00	66.63	C
ATOM	10038	O	ARG	C	900	14.322	98.763	34.675	1.00	66.63	C
ATOM	10039	N	TYR	C	901	16.349	98.366	35.534	1.00	35.63	C
ATOM	10040	CA	TYR	C	901	16.576	99.785	35.734	1.00	35.63	C
ATOM	10041	CB	TYR	C	901	16.743	100.077	37.215	1.00	71.06	C
ATOM	10042	CG	TYR	C	901	15.606	99.585	38.064	1.00	71.06	C

ATOM	10127	CG	PRO	C	912	15.632	108.940	48.564	1.00	32.33	C
ATOM	10128	C	PRO	C	912	14.533	106.342	48.093	1.00	69.29	C
ATOM	10129	O	PRO	C	912	13.562	105.606	48.251	1.00	69.29	C
ATOM	10130	N	GLU	C	913	14.905	106.826	46.914	1.00	66.75	C
ATOM	10131	CA	GLU	C	913	14.185	106.530	45.687	1.00	66.75	C
ATOM	10132	CB	GLU	C	913	14.948	107.078	44.484	1.00	51.23	C
ATOM	10133	CG	GLU	C	913	14.042	107.683	43.441	1.00	51.23	C
ATOM	10134	CD	GLU	C	913	14.636	108.931	42.818	1.00	51.23	C
ATOM	10135	OE1	GLU	C	913	15.610	108.801	42.044	1.00	51.23	C
ATOM	10136	OE2	GLU	C	913	14.129	110.041	43.111	1.00	51.23	C
ATOM	10137	C	GLU	C	913	14.079	105.033	45.595	1.00	66.75	C
ATOM	10138	O	GLU	C	913	13.136	104.494	45.022	1.00	66.75	C
ATOM	10139	N	ILE	C	914	15.072	104.376	46.181	1.00	47.22	C
ATOM	10140	CA	ILE	C	914	15.142	102.929	46.215	1.00	47.22	C
ATOM	10141	CB	ILE	C	914	16.556	102.490	46.592	1.00	36.83	C
ATOM	10142	CG2	ILE	C	914	16.545	101.059	47.104	1.00	36.83	C
ATOM	10143	CG1	ILE	C	914	17.474	102.678	45.381	1.00	36.83	C
ATOM	10144	CD	ILE	C	914	18.925	102.965	45.746	1.00	36.83	C
ATOM	10145	C	ILE	C	914	14.137	102.424	47.238	1.00	47.22	C
ATOM	10146	O	ILE	C	914	13.233	101.657	46.906	1.00	47.22	C
ATOM	10147	N	LYS	C	915	14.293	102.870	48.480	1.00	83.17	C
ATOM	10148	CA	LYS	C	915	13.383	102.480	49.547	1.00	83.17	C
ATOM	10149	CB	LYS	C	915	13.551	103.410	50.745	1.00	42.61	C
ATOM	10150	CG	LYS	C	915	14.938	103.374	51.372	1.00	42.61	C
ATOM	10151	CD	LYS	C	915	15.264	102.017	52.002	1.00	42.61	C
ATOM	10152	CE	LYS	C	915	16.398	102.149	53.021	1.00	42.61	C
ATOM	10153	NZ	LYS	C	915	17.566	102.917	52.482	1.00	42.61	C
ATOM	10154	C	LYS	C	915	11.952	102.560	49.025	1.00	83.17	C
ATOM	10155	O	LYS	C	915	11.190	101.611	49.153	1.00	83.17	C
ATOM	10156	N	GLU	C	916	11.593	103.701	48.439	1.00	47.84	C
ATOM	10157	CA	GLU	C	916	10.259	103.886	47.871	1.00	47.84	C
ATOM	10158	CB	GLU	C	916	10.201	105.195	47.064	1.00	100.07	C
ATOM	10159	CG	GLU	C	916	9.106	105.238	45.991	1.00	100.07	C
ATOM	10160	CD	GLU	C	916	9.412	106.226	44.863	1.00	100.07	C
ATOM	10161	OE1	GLU	C	916	10.559	106.227	44.360	1.00	100.07	C
ATOM	10162	OE2	GLU	C	916	8.505	106.990	44.465	1.00	100.07	C
ATOM	10163	C	GLU	C	916	10.059	102.703	46.937	1.00	47.84	C
ATOM	10164	O	GLU	C	916	9.176	101.861	47.122	1.00	47.84	C
ATOM	10165	N	LEU	C	917	10.934	102.649	45.945	1.00	81.59	C
ATOM	10166	CA	LEU	C	917	10.925	101.618	44.933	1.00	81.59	C
ATOM	10167	CB	LEU	C	917	12.010	101.918	43.924	1.00	30.02	C
ATOM	10168	CG	LEU	C	917	11.620	101.641	42.486	1.00	30.02	C
ATOM	10169	CD1	LEU	C	917	12.712	102.187	41.575	1.00	30.02	C
ATOM	10170	CD2	LEU	C	917	11.397	100.153	42.281	1.00	30.02	C
ATOM	10171	C	LEU	C	917	11.183	100.262	45.547	1.00	81.59	C
ATOM	10172	O	LEU	C	917	11.348	99.269	44.845	1.00	81.59	C
ATOM	10173	N	LEU	C	918	11.215	100.216	46.866	1.00	38.74	C
ATOM	10174	CA	LEU	C	918	11.487	98.969	47.536	1.00	38.74	C
ATOM	10175	CB	LEU	C	918	12.849	99.064	48.216	1.00	71.95	C
ATOM	10176	CG	LEU	C	918	13.477	97.784	48.746	1.00	71.95	C
ATOM	10177	CD1	LEU	C	918	14.882	97.678	48.198	1.00	71.95	C
ATOM	10178	CD2	LEU	C	918	13.476	97.789	50.269	1.00	71.95	C
ATOM	10179	C	LEU	C	918	10.397	98.707	48.548	1.00	38.74	C
ATOM	10180	O	LEU	C	918	10.032	97.556	48.795	1.00	38.74	C
ATOM	10181	N	ALA	C	919	9.888	99.785	49.142	1.00	24.80	C
ATOM	10182	CA	ALA	C	919	8.825	99.676	50.132	1.00	24.80	C
ATOM	10183	CB	ALA	C	919	8.133	101.017	50.319	1.00	74.22	C
ATOM	10184	C	ALA	C	919	7.908	98.699	49.455	1.00	24.80	C
ATOM	10185	O	ALA	C	919	7.547	97.668	50.024	1.00	24.80	C
ATOM	10186	N	GLU	C	920	7.590	99.024	48.203	1.00	30.78	C
ATOM	10187	CA	GLU	C	920	6.750	98.175	47.379	1.00	30.78	C
ATOM	10188	CB	GLU	C	920	6.616	98.747	45.964	1.00	100.07	C
ATOM	10189	CG	GLU	C	920	5.893	100.081	45.889	1.00	100.07	C
ATOM	10190	CD	GLU	C	920	5.895	100.672	44.490	1.00	100.07	C
ATOM	10191	OE1	GLU	C	920	5.373	100.015	43.563	1.00	100.07	C
ATOM	10192	OE2	GLU	C	920	6.419	101.796	44.322	1.00	100.07	C
ATOM	10193	C	GLU	C	920	7.476	96.843	47.328	1.00	30.78	C
ATOM	10194	O	GLU	C	920	8.187	96.488	48.271	1.00	30.78	C
ATOM	10195	N	ALA	C	921	7.321	96.113	46.229	1.00	33.07	C
ATOM	10196	CA	ALA	C	921	7.978	94.821	46.118	1.00	33.07	C
ATOM	10197	CB	ALA	C	921	9.469	95.013	46.090	1.00	35.08	C
ATOM	10198	C	ALA	C	921	7.567	94.069	47.370	1.00	33.07	C
ATOM	10199	O	ALA	C	921	6.745	93.156	47.323	1.00	33.07	C
ATOM	10200	N	PHE	C	922	8.148	94.468	48.493	1.00	42.33	C
ATOM	10201	CA	PHE	C	922	7.808	93.876	49.762	1.00	42.33	C
ATOM	10202	CB	PHE	C	922	8.342	94.716	50.907	1.00	22.01	C
ATOM	10203	CG	PHE	C	922	7.877	94.245	52.260	1.00	22.01	C
ATOM	10204	CD1	PHE	C	922	8.712	93.471	53.068	1.00	22.01	C
ATOM	10205	CD2	PHE	C	922	6.604	94.590	52.734	1.00	22.01	C
ATOM	10206	CE1	PHE	C	922	8.291	93.053	54.324	1.00	22.01	C
ATOM	10207	CE2	PHE	C	922	6.176	94.179	53.981	1.00	22.01	C
ATOM	10208	CZ	PHE	C	922	7.017	93.412	54.782	1.00	22.01	C
ATOM	10209	C	PHE	C	922	6.292	93.851	49.852	1.00	42.33	C
ATOM	10210	O	PHE	C	922	5.701	92.806	50.119	1.00	42.33	C

ATOM	10211	N	ASN	C	923	5.667	95.007	49.626	1.00	62.06	C
ATOM	10212	CA	ASN	C	923	4.212	95.118	49.688	1.00	62.06	C
ATOM	10213	CB	ASN	C	923	3.742	96.518	49.281	1.00	89.21	C
ATOM	10214	CG	ASN	C	923	3.670	97.473	50.463	1.00	89.21	C
ATOM	10215	OD1	ASN	C	923	3.197	97.110	51.544	1.00	89.21	C
ATOM	10216	ND2	ASN	C	923	4.125	98.702	50.260	1.00	89.21	C
ATOM	10217	C	ASN	C	923	3.506	94.078	48.841	1.00	62.06	C
ATOM	10218	O	ASN	C	923	2.294	94.129	48.662	1.00	62.06	C
ATOM	10219	N	LEU	C	924	4.281	93.146	48.303	1.00	47.73	C
ATOM	10220	CA	LEU	C	924	3.742	92.057	47.514	1.00	47.73	C
ATOM	10221	CB	LEU	C	924	3.881	92.316	46.019	1.00	23.71	C
ATOM	10222	CG	LEU	C	924	4.708	93.489	45.513	1.00	23.71	C
ATOM	10223	CD1	LEU	C	924	4.658	93.419	43.992	1.00	23.71	C
ATOM	10224	CD2	LEU	C	924	4.178	94.850	46.032	1.00	23.71	C
ATOM	10225	C	LEU	C	924	4.517	90.818	47.886	1.00	47.73	C
ATOM	10226	O	LEU	C	924	3.945	89.739	48.032	1.00	47.73	C
ATOM	10227	N	TYR	C	925	5.828	90.977	48.038	1.00	29.69	C
ATOM	10228	CA	TYR	C	925	6.668	89.857	48.416	1.00	29.69	C
ATOM	10229	CB	TYR	C	925	8.094	90.305	48.698	1.00	48.02	C
ATOM	10230	CG	TYR	C	925	8.743	89.505	49.804	1.00	48.02	C
ATOM	10231	CD1	TYR	C	925	9.045	88.150	49.640	1.00	48.02	C
ATOM	10232	CE1	TYR	C	925	9.594	87.401	50.683	1.00	48.02	C
ATOM	10233	CD2	TYR	C	925	9.010	90.089	51.036	1.00	48.02	C
ATOM	10234	CE2	TYR	C	925	9.554	89.351	52.075	1.00	48.02	C
ATOM	10235	CZ	TYR	C	925	9.843	88.013	51.896	1.00	48.02	C
ATOM	10236	OH	TYR	C	925	10.378	87.305	52.941	1.00	48.02	C
ATOM	10237	C	TYR	C	925	6.056	89.350	49.689	1.00	29.69	C
ATOM	10238	O	TYR	C	925	6.118	88.165	49.998	1.00	29.69	C
ATOM	10239	N	PHE	C	926	5.469	90.269	50.436	1.00	98.59	C
ATOM	10240	CA	PHE	C	926	4.832	89.893	51.668	1.00	98.59	C
ATOM	10241	CB	PHE	C	926	5.189	90.854	52.787	1.00	51.90	C
ATOM	10242	CG	PHE	C	926	4.920	90.292	54.131	1.00	51.90	C
ATOM	10243	CD1	PHE	C	926	5.135	88.937	54.371	1.00	51.90	C
ATOM	10244	CD2	PHE	C	926	4.475	91.091	55.160	1.00	51.90	C
ATOM	10245	CE1	PHE	C	926	4.913	88.382	55.620	1.00	51.90	C
ATOM	10246	CE2	PHE	C	926	4.249	90.547	56.423	1.00	51.90	C
ATOM	10247	CZ	PHE	C	926	4.470	89.186	56.652	1.00	51.90	C
ATOM	10248	C	PHE	C	926	3.333	89.847	51.478	1.00	98.59	C
ATOM	10249	O	PHE	C	926	2.590	89.526	52.404	1.00	98.59	C
ATOM	10250	N	GLY	C	927	2.893	90.184	50.271	1.00	98.95	C
ATOM	10251	CA	GLY	C	927	1.477	90.135	49.963	1.00	98.95	C
ATOM	10252	C	GLY	C	927	1.133	88.669	49.783	1.00	98.95	C
ATOM	10253	O	GLY	C	927	-0.022	88.259	49.904	1.00	98.95	C
ATOM	10254	N	LYS	C	928	2.165	87.880	49.490	1.00	49.42	C
ATOM	10255	CA	LYS	C	928	2.027	86.441	49.302	1.00	49.42	C
ATOM	10256	CB	LYS	C	928	3.387	85.786	49.020	1.00	99.83	C
ATOM	10257	CG	LYS	C	928	4.359	86.565	48.138	1.00	99.83	C
ATOM	10258	CD	LYS	C	928	5.699	85.820	48.044	1.00	99.83	C
ATOM	10259	CE	LYS	C	928	6.749	86.622	47.285	1.00	99.83	C
ATOM	10260	NZ	LYS	C	928	8.028	85.873	47.109	1.00	99.83	C
ATOM	10261	C	LYS	C	928	1.498	85.864	50.606	1.00	49.42	C
ATOM	10262	O	LYS	C	928	0.299	85.873	50.868	1.00	49.42	C
ATOM	10263	N	ARG	C	929	2.430	85.364	51.409	1.00	37.71	C
ATOM	10264	CA	ARG	C	929	2.140	84.779	52.700	1.00	37.71	C
ATOM	10265	CB	ARG	C	929	3.271	85.128	53.657	1.00	81.61	C
ATOM	10266	CG	ARG	C	929	4.619	84.729	53.097	1.00	81.61	C
ATOM	10267	CD	ARG	C	929	5.742	85.373	53.857	1.00	81.61	C
ATOM	10268	NE	ARG	C	929	5.714	85.008	55.262	1.00	81.61	C
ATOM	10269	CZ	ARG	C	929	6.634	85.392	56.133	1.00	81.61	C
ATOM	10270	NH1	ARG	C	929	7.647	86.149	55.736	1.00	81.61	C
ATOM	10271	NH2	ARG	C	929	6.541	85.019	57.399	1.00	81.61	C
ATOM	10272	C	ARG	C	929	0.813	85.313	53.209	1.00	37.71	C
ATOM	10273	O	ARG	C	929	-0.153	84.559	53.353	1.00	37.71	C
ATOM	10274	N	GLN	C	930	0.764	86.612	53.487	1.00	73.92	C
ATOM	10275	CA	GLN	C	930	-0.481	87.221	53.924	1.00	73.92	C
ATOM	10276	CB	GLN	C	930	-0.255	88.660	54.374	1.00	92.26	C
ATOM	10277	CG	GLN	C	930	0.750	88.787	55.499	1.00	92.26	C
ATOM	10278	CD	GLN	C	930	0.625	90.099	56.247	1.00	92.26	C
ATOM	10279	OE1	GLN	C	930	0.654	91.178	55.649	1.00	92.26	C
ATOM	10280	NE2	GLN	C	930	0.485	90.012	57.567	1.00	92.26	C
ATOM	10281	C	GLN	C	930	-1.310	87.174	52.650	1.00	73.92	C
ATOM	10282	O	GLN	C	930	-1.453	88.163	51.926	1.00	73.92	C
ATOM	10283	N	GLY	C	931	-1.813	85.975	52.385	1.00	45.05	C
ATOM	10284	CA	GLY	C	931	-2.604	85.683	51.210	1.00	45.05	C
ATOM	10285	C	GLY	C	931	-2.421	84.190	51.048	1.00	45.05	C
ATOM	10286	O	GLY	C	931	-3.281	83.408	51.461	1.00	45.05	C
ATOM	10287	N	GLU	C	932	-1.277	83.797	50.488	1.00	60.13	C
ATOM	10288	CA	GLU	C	932	-0.955	82.388	50.281	1.00	60.13	C
ATOM	10289	CB	GLU	C	932	0.548	82.206	50.044	1.00	98.24	C
ATOM	10290	CG	GLU	C	932	1.063	82.817	48.754	1.00	98.24	C
ATOM	10291	CD	GLU	C	932	2.266	82.068	48.198	1.00	98.24	C
ATOM	10292	OE1	GLU	C	932	3.247	81.870	48.948	1.00	98.24	C
ATOM	10293	OE2	GLU	C	932	2.229	81.679	47.010	1.00	98.24	C
ATOM	10294	C	GLU	C	932	-1.378	81.547	51.483	1.00	60.13	C

ATOM	10379	CB	VAL	C	943	15.567	84.348	66.134	1.00100.07	C
ATOM	10380	CG1	VAL	C	943	17.035	84.407	66.560	1.00100.07	C
ATOM	10381	CG2	VAL	C	943	15.039	82.921	66.233	1.00100.07	C
ATOM	10382	C	VAL	C	943	14.976	86.737	66.670	1.00 48.32	C
ATOM	10383	O	VAL	C	943	14.757	87.628	67.497	1.00 48.32	C
ATOM	10384	N	LEU	C	944	15.422	86.969	65.436	1.00 40.93	C
ATOM	10385	CA	LEU	C	944	15.757	88.302	64.932	1.00 40.93	C
ATOM	10386	CB	LEU	C	944	15.659	88.329	63.411	1.00 60.07	C
ATOM	10387	CG	LEU	C	944	16.688	87.441	62.715	1.00 60.07	C
ATOM	10388	CD1	LEU	C	944	16.246	85.985	62.777	1.00 60.07	C
ATOM	10389	CD2	LEU	C	944	16.842	87.890	61.274	1.00 60.07	C
ATOM	10390	C	LEU	C	944	14.957	89.454	65.512	1.00 40.93	C
ATOM	10391	O	LEU	C	944	15.479	90.230	66.310	1.00 40.93	C
ATOM	10392	N	ALA	C	945	13.704	89.572	65.091	1.00 38.12	C
ATOM	10393	CA	ALA	C	945	12.836	90.625	65.584	1.00 38.12	C
ATOM	10394	CB	ALA	C	945	11.407	90.114	65.671	1.00100.07	C
ATOM	10395	C	ALA	C	945	13.320	91.096	66.958	1.00 38.12	C
ATOM	10396	O	ALA	C	945	13.366	92.289	67.228	1.00 38.12	C
ATOM	10397	N	ARG	C	946	13.661	90.160	67.836	1.00 48.91	C
ATOM	10398	CA	ARG	C	946	14.181	90.556	69.131	1.00 48.91	C
ATOM	10399	CB	ARG	C	946	14.446	89.335	70.025	1.00100.07	C
ATOM	10400	CG	ARG	C	946	13.193	88.586	70.477	1.00100.07	C
ATOM	10401	CD	ARG	C	946	13.519	87.373	71.369	1.00100.07	C
ATOM	10402	NE	ARG	C	946	12.321	86.590	71.697	1.00100.07	C
ATOM	10403	CZ	ARG	C	946	12.314	85.492	72.451	1.00100.07	C
ATOM	10404	NH1	ARG	C	946	13.445	85.029	72.970	1.00100.07	C
ATOM	10405	NH2	ARG	C	946	11.173	84.852	72.687	1.00100.07	C
ATOM	10406	C	ARG	C	946	15.498	91.207	68.736	1.00 48.91	C
ATOM	10407	O	ARG	C	946	15.535	92.375	68.347	1.00 48.91	C
ATOM	10408	N	ALA	C	947	16.566	90.416	68.779	1.00 34.81	C
ATOM	10409	CA	ALA	C	947	17.919	90.862	68.440	1.00 34.81	C
ATOM	10410	CB	ALA	C	947	18.625	89.778	67.616	1.00 33.10	C
ATOM	10411	C	ALA	C	947	18.065	92.220	67.749	1.00 34.81	C
ATOM	10412	O	ALA	C	947	18.525	93.177	68.359	1.00 34.81	C
ATOM	10413	N	GLU	C	948	17.663	92.332	66.494	1.00 31.69	C
ATOM	10414	CA	GLU	C	948	17.858	93.602	65.823	1.00 31.69	C
ATOM	10415	CB	GLU	C	948	17.310	93.566	64.395	1.00100.07	C
ATOM	10416	CG	GLU	C	948	15.905	94.088	64.237	1.00100.07	C
ATOM	10417	CD	GLU	C	948	14.945	93.447	65.212	1.00100.07	C
ATOM	10418	OE1	GLU	C	948	15.056	92.225	65.428	1.00100.07	C
ATOM	10419	OE2	GLU	C	948	14.080	94.164	65.759	1.00100.07	C
ATOM	10420	C	GLU	C	948	17.326	94.834	66.551	1.00 31.69	C
ATOM	10421	O	GLU	C	948	18.046	95.827	66.661	1.00 31.69	C
ATOM	10422	N	LYS	C	949	16.098	94.803	67.066	1.00 68.91	C
ATOM	10423	CA	LYS	C	949	15.586	95.995	67.742	1.00 68.91	C
ATOM	10424	CB	LYS	C	949	14.186	95.773	68.332	1.00 46.24	C
ATOM	10425	CG	LYS	C	949	14.140	95.089	69.686	1.00 46.24	C
ATOM	10426	CD	LYS	C	949	12.816	95.354	70.398	1.00 46.24	C
ATOM	10427	CE	LYS	C	949	11.632	94.708	69.688	1.00 46.24	C
ATOM	10428	NZ	LYS	C	949	11.372	95.219	68.310	1.00 46.24	C
ATOM	10429	C	LYS	C	949	16.564	96.359	68.840	1.00 68.91	C
ATOM	10430	O	LYS	C	949	16.754	97.532	69.150	1.00 68.91	C
ATOM	10431	N	LEU	C	950	17.193	95.340	69.417	1.00 30.74	C
ATOM	10432	CA	LEU	C	950	18.179	95.549	70.458	1.00 30.74	C
ATOM	10433	CB	LEU	C	950	18.600	94.206	71.067	1.00 99.55	C
ATOM	10434	CG	LEU	C	950	17.569	93.391	71.869	1.00 99.55	C
ATOM	10435	CD1	LEU	C	950	16.345	93.102	71.026	1.00 99.55	C
ATOM	10436	CD2	LEU	C	950	18.194	92.080	72.340	1.00 99.55	C
ATOM	10437	C	LEU	C	950	19.359	96.211	69.756	1.00 30.74	C
ATOM	10438	O	LEU	C	950	20.496	95.767	69.868	1.00 30.74	C
ATOM	10439	N	GLY	C	951	19.068	97.275	69.016	1.00 56.95	C
ATOM	10440	CA	GLY	C	951	20.095	97.992	68.288	1.00 56.95	C
ATOM	10441	C	GLY	C	951	19.926	97.793	66.797	1.00 56.95	C
ATOM	10442	O	GLY	C	951	20.687	97.029	66.199	1.00 56.95	C
ATOM	10443	N	LEU	C	952	18.929	98.474	66.218	1.00 89.26	C
ATOM	10444	CA	LEU	C	952	18.592	98.417	64.786	1.00 89.26	C
ATOM	10445	CB	LEU	C	952	19.331	97.274	64.100	1.00 36.22	C
ATOM	10446	CG	LEU	C	952	18.842	96.852	62.717	1.00 36.22	C
ATOM	10447	CD1	LEU	C	952	18.763	98.082	61.807	1.00 36.22	C
ATOM	10448	CD2	LEU	C	952	19.790	95.785	62.145	1.00 36.22	C
ATOM	10449	C	LEU	C	952	17.088	98.227	64.576	1.00 89.26	C
ATOM	10450	O	LEU	C	952	16.434	97.588	65.395	1.00 89.26	C
ATOM	10451	N	VAL	C	953	16.551	98.771	63.478	1.00 34.55	C
ATOM	10452	CA	VAL	C	953	15.111	98.679	63.138	1.00 34.55	C
ATOM	10453	CB	VAL	C	953	14.627	97.220	63.000	1.00 40.33	C
ATOM	10454	CG1	VAL	C	953	14.110	96.691	64.342	1.00 40.33	C
ATOM	10455	CG2	VAL	C	953	13.513	97.162	61.987	1.00 40.33	C
ATOM	10456	C	VAL	C	953	14.119	99.349	64.109	1.00 34.55	C
ATOM	10457	O	VAL	C	953	14.311	99.343	65.335	1.00 34.55	C
ATOM	10458	N	SER	C	954	13.039	99.895	63.556	1.00 75.53	C
ATOM	10459	CA	SER	C	954	12.016	100.559	64.363	1.00 75.53	C
ATOM	10460	CB	SER	C	954	10.830	100.943	63.474	1.00 67.76	C
ATOM	10461	OG	SER	C	954	11.212	101.907	62.504	1.00 67.76	C
ATOM	10462	C	SER	C	954	11.548	99.653	65.507	1.00 75.53	C

ATOM	10463	O	SER	C	954	10.861	98.663	65.270	1.00	75.53	C
ATOM	10464	N	PRO	C	955	11.909	99.989	66.764	1.00	69.46	C
ATOM	10465	CD	PRO	C	955	12.816	101.089	67.139	1.00	94.74	C
ATOM	10466	CA	PRO	C	955	11.541	99.212	67.957	1.00	69.46	C
ATOM	10467	CB	PRO	C	955	12.649	99.558	68.936	1.00	94.74	C
ATOM	10468	CG	PRO	C	955	12.816	101.013	68.672	1.00	94.74	C
ATOM	10469	C	PRO	C	955	10.184	99.525	68.550	1.00	69.46	C
ATOM	10470	O	PRO	C	955	9.579	100.547	68.247	1.00	69.46	C
ATOM	10471	N	GLY	C	956	9.714	98.630	69.409	1.00	71.64	C
ATOM	10472	CA	GLY	C	956	8.438	98.847	70.055	1.00	71.64	C
ATOM	10473	C	GLY	C	956	7.165	98.338	69.398	1.00	71.64	C
ATOM	10474	O	GLY	C	956	6.475	97.512	69.992	1.00	71.64	C
ATOM	10475	N	LYS	C	957	6.840	98.791	68.187	1.00	34.57	C
ATOM	10476	CA	LYS	C	957	5.583	98.353	67.590	1.00	34.57	C
ATOM	10477	CB	LYS	C	957	4.733	99.574	67.232	1.00	100.07	C
ATOM	10478	CG	LYS	C	957	3.255	99.242	66.987	1.00	100.07	C
ATOM	10479	CD	LYS	C	957	2.572	98.743	68.266	1.00	100.07	C
ATOM	10480	CE	LYS	C	957	1.092	98.432	68.044	1.00	100.07	C
ATOM	10481	NZ	LYS	C	957	0.391	98.021	69.301	1.00	100.07	C
ATOM	10482	C	LYS	C	957	5.516	97.371	66.418	1.00	34.57	C
ATOM	10483	O	LYS	C	957	5.900	97.677	65.279	1.00	34.57	C
ATOM	10484	N	SER	C	958	4.976	96.195	66.736	1.00	53.75	C
ATOM	10485	CA	SER	C	958	4.735	95.105	65.796	1.00	53.75	C
ATOM	10486	CB	SER	C	958	3.728	95.542	64.738	1.00	27.38	C
ATOM	10487	OG	SER	C	958	3.760	94.645	63.637	1.00	27.38	C
ATOM	10488	C	SER	C	958	5.874	94.427	65.070	1.00	53.75	C
ATOM	10489	O	SER	C	958	6.828	95.071	64.641	1.00	53.75	C
ATOM	10490	N	PRO	C	959	5.751	93.099	64.887	1.00	40.02	C
ATOM	10491	CD	PRO	C	959	4.633	92.332	65.465	1.00	84.92	C
ATOM	10492	CA	PRO	C	959	6.689	92.196	64.215	1.00	40.02	C
ATOM	10493	CB	PRO	C	959	6.268	90.833	64.732	1.00	84.92	C
ATOM	10494	CG	PRO	C	959	4.786	90.981	64.805	1.00	84.92	C
ATOM	10495	C	PRO	C	959	6.523	92.306	62.702	1.00	40.02	C
ATOM	10496	O	PRO	C	959	7.487	92.474	61.966	1.00	40.02	C
ATOM	10497	N	GLU	C	960	5.287	92.198	62.242	1.00	17.23	C
ATOM	10498	CA	GLU	C	960	5.022	92.321	60.828	1.00	17.23	C
ATOM	10499	CB	GLU	C	960	3.527	92.186	60.563	1.00	99.51	C
ATOM	10500	CG	GLU	C	960	3.123	92.591	59.159	1.00	99.51	C
ATOM	10501	CD	GLU	C	960	1.634	92.485	58.936	1.00	99.51	C
ATOM	10502	OE1	GLU	C	960	1.171	92.850	57.831	1.00	99.51	

ATOM	10547	OE2	GLU	C	965	11.896	101.411	59.763	1.00	100.07	C
ATOM	10548	C	GLU	C	965	12.359	97.597	57.894	1.00	61.72	C
ATOM	10549	O	GLU	C	965	13.142	98.300	57.252	1.00	61.72	C
ATOM	10550	N	LEU	C	966	12.651	96.353	58.269	1.00	45.84	C
ATOM	10551	CA	LEU	C	966	13.943	95.751	57.957	1.00	45.84	C
ATOM	10552	CB	LEU	C	966	14.109	94.427	58.709	1.00	8.60	C
ATOM	10553	CG	LEU	C	966	15.510	94.226	59.291	1.00	8.60	C
ATOM	10554	CD1	LEU	C	966	16.008	95.572	59.726	1.00	8.60	C
ATOM	10555	CD2	LEU	C	966	15.524	93.254	60.475	1.00	8.60	C
ATOM	10556	C	LEU	C	966	14.122	95.548	56.454	1.00	45.84	C
ATOM	10557	O	LEU	C	966	14.981	96.185	55.858	1.00	45.84	C
ATOM	10558	N	PHE	C	967	13.315	94.677	55.847	1.00	69.08	C
ATOM	10559	CA	PHE	C	967	13.369	94.412	54.404	1.00	69.08	C
ATOM	10560	CB	PHE	C	967	11.963	94.000	53.895	1.00	24.53	C
ATOM	10561	CG	PHE	C	967	11.933	93.483	52.460	1.00	24.53	C
ATOM	10562	CD1	PHE	C	967	12.185	92.145	52.177	1.00	24.53	C
ATOM	10563	CD2	PHE	C	967	11.678	94.349	51.392	1.00	24.53	C
ATOM	10564	CE1	PHE	C	967	12.186	91.686	50.858	1.00	24.53	C
ATOM	10565	CE2	PHE	C	967	11.680	93.890	50.080	1.00	24.53	C
ATOM	10566	CZ	PHE	C	967	11.935	92.560	49.815	1.00	24.53	C
ATOM	10567	C	PHE	C	967	13.871	95.664	53.657	1.00	69.08	C
ATOM	10568	O	PHE	C	967	14.595	95.545	52.670	1.00	69.08	C
ATOM	10569	N	ASP	C	968	13.491	96.855	54.128	1.00	38.84	C
ATOM	10570	CA	ASP	C	968	13.938	98.117	53.508	1.00	38.84	C
ATOM	10571	CB	ASP	C	968	13.864	99.275	54.503	1.00	91.58	C
ATOM	10572	CG	ASP	C	968	12.492	99.892	54.587	1.00	91.58	C
ATOM	10573	OD1	ASP	C	968	11.950	100.277	53.530	1.00	91.58	C
ATOM	10574	OD2	ASP	C	968	11.963	100.004	55.711	1.00	91.58	C
ATOM	10575	C	ASP	C	968	15.382	98.003	53.048	1.00	38.84	C
ATOM	10576	O	ASP	C	968	15.678	97.992	51.849	1.00	38.84	C
ATOM	10577	N	LEU	C	969	16.273	97.954	54.035	1.00	45.27	C
ATOM	10578	CA	LEU	C	969	17.696	97.799	53.805	1.00	45.27	C
ATOM	10579	CB	LEU	C	969	18.482	98.524	54.919	1.00	54.46	C
ATOM	10580	CG	LEU	C	969	18.235	98.367	56.439	1.00	54.46	C
ATOM	10581	CD1	LEU	C	969	19.381	99.039	57.216	1.00	54.46	C
ATOM	10582	CD2	LEU	C	969	16.895	98.968	56.852	1.00	54.46	C
ATOM	10583	C	LEU	C	969	17.993	96.278	53.755	1.00	45.27	C
ATOM	10584	O	LEU	C	969	17.916	95.671	52.689	1.00	45.27	C
ATOM	10585	N	GLY	C	970	18.306	95.659	54.892	1.00	36.39	C
ATOM	10586	CA	GLY	C	970	18.562					

ATOM	10631	O	TYR	C	975	19.150	80.319	58.380	1.00	47.42	C
ATOM	10632	N	ASP	C	976	19.215	79.727	56.207	1.00	24.95	C
ATOM	10633	CA	ASP	C	976	20.433	78.896	56.306	1.00	24.95	C
ATOM	10634	CB	ASP	C	976	21.222	79.150	57.614	1.00	61.71	C
ATOM	10635	CG	ASP	C	976	22.563	78.392	57.675	1.00	61.71	C
ATOM	10636	OD1	ASP	C	976	23.352	78.469	56.708	1.00	61.71	C
ATOM	10637	OD2	ASP	C	976	22.840	77.732	58.702	1.00	61.71	C
ATOM	10638	C	ASP	C	976	20.024	77.436	56.220	1.00	24.95	C
ATOM	10639	O	ASP	C	976	20.222	76.655	57.157	1.00	24.95	C
ATOM	10640	N	GLY	C	977	19.452	77.100	55.064	1.00	32.37	C
ATOM	10641	CA	GLY	C	977	18.982	75.757	54.759	1.00	32.37	C
ATOM	10642	C	GLY	C	977	19.751	74.550	55.279	1.00	32.37	C
ATOM	10643	O	GLY	C	977	19.296	73.409	55.098	1.00	32.37	C
ATOM	10644	N	ARG	C	978	20.910	74.772	55.892	1.00	45.31	C
ATOM	10645	CA	ARG	C	978	21.653	73.658	56.436	1.00	45.31	C
ATOM	10646	CB	ARG	C	978	22.922	74.130	57.128	1.00	40.73	C
ATOM	10647	CG	ARG	C	978	23.865	74.893	56.235	1.00	40.73	C
ATOM	10648	CD	ARG	C	978	25.173	75.112	56.953	1.00	40.73	C
ATOM	10649	NE	ARG	C	978	26.230	75.584	56.070	1.00	40.73	C
ATOM	10650	CZ	ARG	C	978	27.525	75.487	56.355	1.00	40.73	C
ATOM	10651	NH1	ARG	C	978	27.933	74.938	57.496	1.00	40.73	C
ATOM	10652	NH2	ARG	C	978	28.421	75.938	55.497	1.00	40.73	C
ATOM	10653	C	ARG	C	978	20.711	73.021	57.448	1.00	45.31	C
ATOM	10654	O	ARG	C	978	20.507	71.807	57.429	1.00	45.31	C
ATOM	10655	N	THR	C	979	20.126	73.846	58.319	1.00	29.33	C
ATOM	10656	CA	THR	C	979	19.172	73.373	59.326	1.00	29.33	C
ATOM	10657	CB	THR	C	979	19.787	72.292	60.253	1.00	99.95	C
ATOM	10658	OG1	THR	C	979	19.884	71.047	59.551	1.00	99.95	C
ATOM	10659	CG2	THR	C	979	18.915	72.090	61.491	1.00	99.95	C
ATOM	10660	C	THR	C	979	18.666	74.499	60.214	1.00	29.33	C
ATOM	10661	O	THR	C	979	17.515	74.950	60.087	1.00	29.33	C
ATOM	10662	N	GLY	C	980	19.562	74.923	61.110	1.00	49.26	C
ATOM	10663	CA	GLY	C	980	19.318	75.973	62.091	1.00	49.26	C
ATOM	10664	C	GLY	C	980	18.201	76.976	61.893	1.00	49.26	C
ATOM	10665	O	GLY	C	980	17.653	77.458	62.866	1.00	49.26	C
ATOM	10666	N	GLU	C	981	17.878	77.287	60.643	1.00	100.07	C
ATOM	10667	CA	GLU	C	981	16.830	78.239	60.282	1.00	100.07	C
ATOM	10668	CB	GLU	C	981	15.481	77.895	60.957	1.00	100.07	C
ATOM	10669	CG	GLU	C	981	14.551	76.979	60.111	1.00	100.07	C
ATOM	10670	CD	GLU	C	981	13.055	77.391	60.125	1.00	100.07	C
ATOM	10671	OE1	GLU	C	981	12.668	78.375	59.451	1.00	100.07	C
ATOM	10672	OE2	GLU	C	981	12.255	76.719	60.811	1.00	100.07	C
ATOM	10673	C	GLU	C	981	17.139	79.728	60.485	1.00	100.07	C
ATOM	10674	O	GLU	C	981	17.034	80.505	59.536	1.00	100.07	C
ATOM	10675	N	PRO	C	982	17.519	80.166	61.701	1.00	33.96	C
ATOM	10676	CD	PRO	C	982	17.191	79.843	63.099	1.00	37.75	C
ATOM	10677	CA	PRO	C	982	17.731	81.609	61.565	1.00	33.96	C
ATOM	10678	CB	PRO	C	982	16.926	82.173	62.717	1.00	37.75	C
ATOM	10679	CG	PRO	C	982	17.300	81.212	63.795	1.00	37.75	C
ATOM	10680	C	PRO	C	982	19.178	82.044	61.633	1.00	33.96	C
ATOM	10681	O	PRO	C	982	20.030	81.405	62.271	1.00	33.96	C
ATOM	10682	N	PHE	C	983	19.440	83.136	60.939	1.00	15.71	C
ATOM	10683	CA	PHE	C	983	20.750	83.727	60.933	1.00	15.71	C
ATOM	10684	CB	PHE	C	983	21.157	84.070	59.507	1.00	51.89	C
ATOM	10685	CG	PHE	C	983	22.133	83.099	58.906	1.00	51.89	C
ATOM	10686	CD1	PHE	C	983	22.171	82.895	57.533	1.00	51.89	C
ATOM	10687	CD2	PHE	C	983	23.034	82.410	59.710	1.00	51.89	C
ATOM	10688	CE1	PHE	C	983	23.089	82.020	56.971	1.00	51.89	C
ATOM	10689	CE2	PHE	C	983	23.958	81.533	59.154	1.00	51.89	C
ATOM	10690	CZ	PHE	C	983	23.983	81.340	57.782	1.00	51.89	C
ATOM	10691	C	PHE	C	983	20.500	84.975	61.757	1.00	15.71	C
ATOM	10692	O	PHE	C	983	20.055	85.996	61.234	1.00	15.71	C
ATOM	10693	N	GLU	C	984	20.749	84.862	63.056	1.00	26.64	C
ATOM	10694	CA	GLU	C	984	20.537	85.951	63.998	1.00	26.64	C
ATOM	10695	CB	GLU	C	984	21.262	85.633	65.310	1.00	85.70	C
ATOM	10696	CG	GLU	C	984	22.694	85.131	65.125	1.00	85.70	C
ATOM	10697	CD	GLU	C	984	23.174	84.266	66.288	1.00	85.70	C
ATOM	10698	OE1	GLU	C	984	22.524	83.236	66.560	1.00	85.70	C
ATOM	10699	OE2	GLU	C	984	24.195	84.604	66.928	1.00	85.70	C
ATOM	10700	C	GLU	C	984	20.995	87.290	63.462	1.00	26.64	C
ATOM	10701	O	GLU	C	984	22.172	87.599	63.542	1.00	26.64	C
ATOM	10702	N	GLY	C	985	20.070	88.088	62.928	1.00	28.68	C
ATOM	10703	CA	GLY	C	985	20.436	89.389	62.375	1.00	28.68	C
ATOM	10704	C	GLY	C	985	20.371	89.361	60.855	1.00	28.68	C
ATOM	10705	O	GLY	C	985	21.150	88.650	60.224	1.00	28.68	C
ATOM	10706	N	PRO	C	986	19.472	90.146	60.237	1.00	60.08	C
ATOM	10707	CD	PRO	C	986	18.942	91.340	60.912	1.00	54.17	C
ATOM	10708	CA	PRO	C	986	19.248	90.253	58.786	1.00	60.08	C
ATOM	10709	CB	PRO	C	986	18.557	91.603	58.645	1.00	54.17	C
ATOM	10710	CG	PRO	C	986	19.064	92.369	59.828	1.00	54.17	C
ATOM	10711	C	PRO	C	986	20.483	90.171	57.905	1.00	60.08	C
ATOM	10712	O	PRO	C	986	21.591	90.407	58.375	1.00	60.08	C
ATOM	10713	N	ILE	C	987	20.282	89.840	56.627	1.00	19.00	C
ATOM	10714	CA	ILE	C	987	21.383	89.743	55.662	1.00	19.00	C

ATOM	10715	CB	ILE	C	987	21.830	88.304	55.405	1.00	5.60	C
ATOM	10716	CG2	ILE	C	987	22.717	88.247	54.179	1.00	5.60	C
ATOM	10717	CG1	ILE	C	987	22.575	87.761	56.603	1.00	5.60	C
ATOM	10718	CD	ILE	C	987	21.653	87.194	57.600	1.00	5.60	C
ATOM	10719	C	ILE	C	987	20.995	90.287	54.305	1.00	19.00	C
ATOM	10720	O	ILE	C	987	20.447	89.543	53.506	1.00	19.00	C
ATOM	10721	N	VAL	C	988	21.291	91.552	54.015	1.00	71.61	C
ATOM	10722	CA	VAL	C	988	20.911	92.103	52.719	1.00	71.61	C
ATOM	10723	CB	VAL	C	988	21.744	93.340	52.350	1.00	10.10	C
ATOM	10724	CG1	VAL	C	988	22.612	93.720	53.498	1.00	10.10	C
ATOM	10725	CG2	VAL	C	988	22.573	93.077	51.110	1.00	10.10	C
ATOM	10726	C	VAL	C	988	21.081	91.029	51.654	1.00	71.61	C
ATOM	10727	O	VAL	C	988	22.146	90.418	51.533	1.00	71.61	C
ATOM	10728	N	VAL	C	989	20.003	90.793	50.914	1.00	12.86	C
ATOM	10729	CA	VAL	C	989	19.948	89.790	49.857	1.00	12.86	C
ATOM	10730	CB	VAL	C	989	18.932	88.706	50.249	1.00	18.05	C
ATOM	10731	CG1	VAL	C	989	18.448	87.963	49.030	1.00	18.05	C
ATOM	10732	CG2	VAL	C	989	19.566	87.751	51.238	1.00	18.05	C
ATOM	10733	C	VAL	C	989	19.516	90.459	48.548	1.00	12.86	C
ATOM	10734	O	VAL	C	989	18.571	91.244	48.550	1.00	12.86	C
ATOM	10735	N	GLY	C	990	20.180	90.167	47.434	1.00	15.70	C
ATOM	10736	CA	GLY	C	990	19.774	90.815	46.194	1.00	15.70	C
ATOM	10737	C	GLY	C	990	20.474	90.417	44.901	1.00	15.70	C
ATOM	10738	O	GLY	C	990	21.599	89.901	44.904	1.00	15.70	C
ATOM	10739	N	GLN	C	991	19.803	90.667	43.778	1.00	44.81	C
ATOM	10740	CA	GLN	C	991	20.354	90.331	42.469	1.00	44.81	C
ATOM	10741	CB	GLN	C	991	19.261	90.377	41.413	1.00	67.84	C
ATOM	10742	CG	GLN	C	991	18.042	89.567	41.745	1.00	67.84	C
ATOM	10743	CD	GLN	C	991	17.152	89.406	40.542	1.00	67.84	C
ATOM	10744	OE1	GLN	C	991	16.740	90.390	39.920	1.00	67.84	C
ATOM	10745	NE2	GLN	C	991	16.853	88.160	40.195	1.00	67.84	C
ATOM	10746	C	GLN	C	991	21.465	91.281	42.058	1.00	44.81	C
ATOM	10747	O	GLN	C	991	21.224	92.459	41.814	1.00	44.81	C
ATOM	10748	N	MET	C	992	22.684	90.777	41.961	1.00	34.86	C
ATOM	10749	CA	MET	C	992	23.772	91.650	41.580	1.00	34.86	C
ATOM	10750	CB	MET	C	992	25.035	91.337	42.365	1.00	37.01	C
ATOM	10751	CG	MET	C	992	26.069	92.436	42.285	1.00	37.01	C
ATOM	10752	SD	MET	C	992	27.484	92.047	43.296	1.00	37.01	C
ATOM	10753	CE	MET	C	992	26.771	92.246	44.909	1.00	37.01	C
ATOM	10754	C	MET	C	992	24.063	91.569	40.105	1.00	34.86	C
ATOM	10755	O	MET	C	992	23.283	92.087	39.309	1.00	34.86	C
ATOM	10756	N	PHE	C	993	25.168	90.914	39.738	1.00	45.01	C
ATOM	10757	CA	PHE	C	993	25.573	90.804	38.328	1.00	45.01	C
ATOM	10758	CB	PHE	C	993	25.326	92.145	37.663	1.00	24.03	C
ATOM	10759	CG	PHE	C	993	25.888	92.271	36.314	1.00	24.03	C
ATOM	10760	CD1	PHE	C	993	27.132	92.843	36.127	1.00	24.03	C
ATOM	10761	CD2	PHE	C	993	25.119	91.964	35.206	1.00	24.03	C
ATOM	10762	CE1	PHE	C	993	27.600	93.127	34.838	1.00	24.03	C
ATOM	10763	CE2	PHE	C	993	25.575	92.242	33.916	1.00	24.03	C
ATOM	10764	CZ	PHE	C	993	26.816	92.829	33.736	1.00	24.03	C
ATOM	10765	C	PHE	C	993	27.042	90.427	38.235	1.00	45.01	C
ATOM	10766	O	PHE	C	993	27.910	91.272	38.408	1.00	45.01	C
ATOM	10767	N	ILE	C	994	27.323	89.159	37.957	1.00	48.02	C
ATOM	10768	CA	ILE	C	994	28.708	88.694	37.894	1.00	48.02	C
ATOM	10769	CB	ILE	C	994	28.968	87.672	38.980	1.00	27.84	C
ATOM	10770	CG2	ILE	C	994	30.441	87.598	39.231	1.00	27.84	C
ATOM	10771	CG1	ILE	C	994	28.158	88.022	40.239	1.00	27.84	C
ATOM	10772	CD	ILE	C	994	28.305	89.456	40.722	1.00	27.84	C
ATOM	10773	C	ILE	C	994	29.199	88.092	36.565	1.00	48.02	C
ATOM	10774	O	ILE	C	994	28.906	86.937	36.226	1.00	48.02	C
ATOM	10775	N	MET	C	995	29.973	88.895	35.841	1.00	17.58	C
ATOM	10776	CA	MET	C	995	30.538	88.537	34.556	1.00	17.58	C
ATOM	10777	CB	MET	C	995	31.076	89.804	33.930	1.00	19.94	C
ATOM	10778	CG	MET	C	995	31.195	90.898	34.976	1.00	19.94	C
ATOM	10779	SD	MET	C	995	31.878	92.444	34.388	1.00	19.94	C
ATOM	10780	CE	MET	C	995	31.076	92.559	32.790	1.00	19.94	C
ATOM	10781	C	MET	C	995	31.645	87.536	34.821	1.00	17.58	C
ATOM	10782	O	MET	C	995	32.257	87.562	35.885	1.00	17.58	C
ATOM	10783	N	LYS	C	996	31.893	86.645	33.865	1.00	48.97	C
ATOM	10784	CA	LYS	C	996	32.927	85.624	34.026	1.00	48.97	C
ATOM	10785	CB	LYS	C	996	32.368	84.251	33.686	1.00	14.40	C
ATOM	10786	CG	LYS	C	996	33.415	83.160	33.589	1.00	14.40	C
ATOM	10787	CD	LYS	C	996	32.785	81.923	32.997	1.00	14.40	C
ATOM	10788	CE	LYS	C	996	33.745	80.763	32.926	1.00	14.40	C
ATOM	10789	NZ	LYS	C	996	33.030	79.579	32.379	1.00	14.40	C
ATOM	10790	C	LYS	C	996	34.166	85.856	33.180	1.00	48.97	C
ATOM	10791	O	LYS	C	996	34.215	85.465	32.015	1.00	48.97	C
ATOM	10792	N	LEU	C	997	35.174	86.465	33.788	1.00	24.30	C
ATOM	10793	CA	LEU	C	997	36.432	86.758	33.125	1.00	24.30	C
ATOM	10794	CB	LEU	C	997	37.354	87.378	34.150	1.00	5.72	C
ATOM	10795	CG	LEU	C	997	36.767	88.633	34.757	1.00	5.72	C
ATOM	10796	CD1	LEU	C	997	37.621	89.100	35.903	1.00	5.72	C
ATOM	10797	CD2	LEU	C	997	36.700	89.692	33.692	1.00	5.72	C
ATOM	10798	C	LEU	C	997	37.149	85.574	32.450	1.00	24.30	C

ATOM	10799	O	LEU	C	997	37.304	84.499	33.039	1.00	24.30	C
ATOM	10800	N	TYR	C	998	37.595	85.784	31.215	1.00	42.50	C
ATOM	10801	CA	TYR	C	998	38.327	84.764	30.465	1.00	42.50	C
ATOM	10802	CB	TYR	C	998	38.642	85.278	29.056	1.00	100.07	C
ATOM	10803	CG	TYR	C	998	39.674	84.484	28.280	1.00	100.07	C
ATOM	10804	CD1	TYR	C	998	39.579	83.097	28.162	1.00	100.07	C
ATOM	10805	CE1	TYR	C	998	40.505	82.367	27.388	1.00	100.07	C
ATOM	10806	CD2	TYR	C	998	40.720	85.132	27.613	1.00	100.07	C
ATOM	10807	CE2	TYR	C	998	41.649	84.416	26.837	1.00	100.07	C
ATOM	10808	CZ	TYR	C	998	41.534	83.035	26.729	1.00	100.07	C
ATOM	10809	OH	TYR	C	998	42.434	82.323	25.961	1.00	100.07	C
ATOM	10810	C	TYR	C	998	39.616	84.545	31.222	1.00	42.50	C
ATOM	10811	O	TYR	C	998	40.652	85.079	30.843	1.00	42.50	C
ATOM	10812	N	HIS	C	999	39.546	83.776	32.302	1.00	11.23	C
ATOM	10813	CA	HIS	C	999	40.710	83.510	33.130	1.00	11.23	C
ATOM	10814	CB	HIS	C	999	40.871	84.633	34.147	1.00	51.32	C
ATOM	10815	CG	HIS	C	999	42.177	85.354	34.060	1.00	51.32	C
ATOM	10816	CD2	HIS	C	999	43.176	85.493	34.965	1.00	51.32	C
ATOM	10817	ND1	HIS	C	999	42.566	86.062	32.949	1.00	51.32	C
ATOM	10818	CE1	HIS	C	999	43.747	86.607	33.166	1.00	51.32	C
ATOM	10819	NE2	HIS	C	999	44.143	86.279	34.383	1.00	51.32	C
ATOM	10820	C	HIS	C	999	40.423	82.218	33.864	1.00	11.23	C
ATOM	10821	O	HIS	C	999	40.959	81.975	34.954	1.00	11.23	C
ATOM	10822	N	MET	C1000		39.553	81.403	33.269	1.00	39.96	C
ATOM	10823	CA	MET	C1000		39.146	80.133	33.866	1.00	39.96	C
ATOM	10824	CB	MET	C1000		38.187	79.382	32.926	1.00	53.24	C
ATOM	10825	CG	MET	C1000		38.441	79.604	31.431	1.00	53.24	C
ATOM	10826	SD	MET	C1000		37.162	80.576	30.552	1.00	53.24	C
ATOM	10827	CE	MET	C1000		35.760	79.532	30.760	1.00	53.24	C
ATOM	10828	C	MET	C1000		40.337	79.265	34.249	1.00	39.96	C
ATOM	10829	O	MET	C1000		41.431	79.425	33.722	1.00	39.96	C
ATOM	10830	N	VAL	C1001		40.123	78.356	35.187	1.00	10.65	C
ATOM	10831	CA	VAL	C1001		41.197	77.506	35.646	1.00	10.65	C
ATOM	10832	CB	VAL	C1001		40.784	76.619	36.771	1.00	16.57	C
ATOM	10833	CG1	VAL	C1001		41.968	75.785	37.171	1.00	16.57	C
ATOM	10834	CG2	VAL	C1001		40.246	77.435	37.926	1.00	16.57	C
ATOM	10835	C	VAL	C1001		41.639	76.570	34.578	1.00	10.65	C
ATOM	10836	O	VAL	C1001		42.832	76.421	34.353	1.00	10.65	C
ATOM	10837	N	GLU	C1002		40.658	75.909	33.957	1.00	34.63	C
ATOM	10838	CA	GLU	C1002		40.889	74.935	32.890	1.00	34.63	C
ATOM	10839	CB	GLU	C1002		39.742	74.953	31.873	1.00	85.36	C
ATOM	10840	CG	GLU	C1002		38.372	74.570	32.419	1.00	85.36	C
ATOM	10841	CD	GLU	C1002		37.778	73.335	31.743	1.00	85.36	C
ATOM	10842	OE1	GLU	C1002		38.234	72.204	32.027	1.00	85.36	C
ATOM	10843	OE2	GLU	C1002		36.852	73.498	30.920	1.00	85.36	C
ATOM	10844	C	GLU	C1002		42.176	75.268	32.179	1.00	34.63	C
ATOM	10845	O	GLU	C1002		43.158	74.541	32.281	1.00	34.63	C
ATOM	10846	N	ASP	C1003		42.147	76.390	31.467	1.00	33.92	C
ATOM	10847	CA	ASP	C1003		43.283	76.892	30.712	1.00	33.92	C
ATOM	10848	CB	ASP	C1003		43.020	78.325	30.263	1.00	45.68	C
ATOM	10849	CG	ASP	C1003		42.406	78.401	28.892	1.00	45.68	C
ATOM	10850	OD1	ASP	C1003		43.059	77.932	27.935	1.00	45.68	C
ATOM	10851	OD2	ASP	C1003		41.281	78.931	28.763	1.00	45.68	C
ATOM	10852	C	ASP	C1003		44.598	76.864	31.463	1.00	33.92	C
ATOM	10853	O	ASP	C1003		45.651	76.971	30.837	1.00	33.92	C
ATOM	10854	N	LYS	C1004		44.550	76.726	32.788	1.00	32.49	C
ATOM	10855	CA	LYS	C1004		45.764	76.704	33.603	1.00	32.49	C
ATOM	10856	CB	LYS	C1004		45.699	77.846	34.611	1.00	61.48	C
ATOM	10857	CG	LYS	C1004		45.652	79.198	33.946	1.00	61.48	C
ATOM	10858	CD	LYS	C1004		45.287	80.289	34.922	1.00	61.48	C
ATOM	10859	CE	LYS	C1004		45.072	81.610	34.196	1.00	61.48	C
ATOM	10860	NZ	LYS	C1004		44.325	82.583	35.043	1.00	61.48	C
ATOM	10861	C	LYS	C1004		46.068	75.378	34.317	1.00	32.49	C
ATOM	10862	O	LYS	C1004		45.385	74.379	34.117	1.00	32.49	C
ATOM	10863	N	MET	C1005		47.108	75.383	35.144	1.00	29.86	C
ATOM	10864	CA	MET	C1005		47.541	74.208	35.898	1.00	29.86	C
ATOM	10865	CB	MET	C1005		46.439	73.715	36.846	1.00	50.48	C
ATOM	10866	CG	MET	C1005		45.484	72.657	36.299	1.00	50.48	C
ATOM	10867	SD	MET	C1005		44.955	71.438	37.556	1.00	50.48	C
ATOM	10868	CE	MET	C1005		45.992	70.076	37.147	1.00	50.48	C
ATOM	10869	C	MET	C1005		48.023	73.036	35.041	1.00	29.86	C
ATOM	10870	O	MET	C1005		47.222	72.370	34.365	1.00	29.86	C
ATOM	10871	N	HIS	C1006		49.344	72.816	35.063	1.00	15.86	C
ATOM	10872	CA	HIS	C1006		49.997	71.721	34.350	1.00	15.86	C
ATOM	10873	CB	HIS	C1006		51.107	72.243	33.428	1.00	98.34	C
ATOM	10874	CG	HIS	C1006		51.129	71.579	32.079	1.00	98.34	C
ATOM	10875	CD2	HIS	C1006		50.775	70.329	31.693	1.00	98.34	C
ATOM	10876	ND1	HIS	C1006		51.524	72.235	30.930	1.00	98.34	C
ATOM	10877	CE1	HIS	C1006		51.407	71.419	29.897	1.00	98.34	C
ATOM	10878	NE2	HIS	C1006		50.954	70.257	30.332	1.00	98.34	C
ATOM	10879	C	HIS	C1006		50.563	70.916	35.494	1.00	15.86	C
ATOM	10880	O	HIS	C1006		50.202	71.176	36.629	1.00	15.86	C
ATOM	10881	N	ALA	C1007		51.417	69.938	35.229	1.00	45.08	C
ATOM	10882	CA	ALA	C1007		52.004	69.141	36.312	1.00	45.08	C

ATOM	10883	CB	ALA	C1007	50.919	68.388	37.072	1.00	20.02	C
ATOM	10884	C	ALA	C1007	53.018	68.161	35.751	1.00	45.08	C
ATOM	10885	O	ALA	C1007	52.661	67.079	35.300	1.00	45.08	C
ATOM	10886	N	ARG	C1008	54.288	68.535	35.784	1.00	33.31	C
ATOM	10887	CA	ARG	C1008	55.319	67.675	35.242	1.00	33.31	C
ATOM	10888	CB	ARG	C1008	56.346	68.515	34.481	1.00	50.90	C
ATOM	10889	CG	ARG	C1008	57.556	67.717	34.042	1.00	50.90	C
ATOM	10890	CD	ARG	C1008	58.295	68.383	32.908	1.00	50.90	C
ATOM	10891	NE	ARG	C1008	59.433	67.577	32.492	1.00	50.90	C
ATOM	10892	CZ	ARG	C1008	60.219	67.861	31.459	1.00	50.90	C
ATOM	10893	NH1	ARG	C1008	60.001	68.939	30.714	1.00	50.90	C
ATOM	10894	NH2	ARG	C1008	61.232	67.058	31.171	1.00	50.90	C
ATOM	10895	C	ARG	C1008	56.040	66.780	36.247	1.00	33.31	C
ATOM	10896	O	ARG	C1008	56.488	67.234	37.294	1.00	33.31	C
ATOM	10897	N	SER	C1009	56.121	65.493	35.930	1.00	31.12	C
ATOM	10898	CA	SER	C1009	56.841	64.554	36.765	1.00	31.12	C
ATOM	10899	CB	SER	C1009	56.045	63.288	37.016	1.00	57.05	C
ATOM	10900	OG	SER	C1009	56.545	62.647	38.175	1.00	57.05	C
ATOM	10901	C	SER	C1009	57.988	64.260	35.841	1.00	31.12	C
ATOM	10902	O	SER	C1009	58.720	65.170	35.501	1.00	31.12	C
ATOM	10903	N	THR	C1010	58.136	63.018	35.402	1.00	59.25	C
ATOM	10904	CA	THR	C1010	59.225	62.689	34.492	1.00	59.25	C
ATOM	10905	CB	THR	C1010	59.061	61.263	33.944	1.00	100.07	C
ATOM	10906	OG1	THR	C1010	58.629	60.398	35.000	1.00	100.07	C
ATOM	10907	CG2	THR	C1010	60.381	60.743	33.399	1.00	100.07	C
ATOM	10908	C	THR	C1010	59.155	63.710	33.346	1.00	59.25	C
ATOM	10909	O	THR	C1010	59.607	64.843	33.488	1.00	59.25	C
ATOM	10910	N	GLY	C1011	58.592	63.323	32.208	1.00	58.45	C
ATOM	10911	CA	GLY	C1011	58.464	64.263	31.108	1.00	58.45	C
ATOM	10912	C	GLY	C1011	59.624	64.383	30.144	1.00	58.45	C
ATOM	10913	O	GLY	C1011	60.682	63.797	30.363	1.00	58.45	C
ATOM	10914	N	PRO	C1012	59.441	65.151	29.053	1.00	37.00	C
ATOM	10915	CD	PRO	C1012	58.130	65.729	28.709	1.00	44.34	C
ATOM	10916	CA	PRO	C1012	60.397	65.430	27.974	1.00	37.00	C
ATOM	10917	CB	PRO	C1012	59.513	65.996	26.877	1.00	44.34	C
ATOM	10918	CG	PRO	C1012	58.504	66.734	27.650	1.00	44.34	C
ATOM	10919	C	PRO	C1012	61.520	66.387	28.318	1.00	37.00	C
ATOM	10920	O	PRO	C1012	61.282	67.563	28.591	1.00	37.00	C
ATOM	10921	N	TYR	C1013	62.734	65.850	28.270	1.00	62.41	C
ATOM	10922	CA	TYR	C1013	64.000	66.534	28.538	1.00	62.41	C
ATOM	10923	CB	TYR	C1013	65.120	65.604	28.081	1.00	100.04	C
ATOM	10924	CG	TYR	C1013	64.853	64.945	26.726	1.00	100.04	C
ATOM	10925	CD1	TYR	C1013	64.768	65.703	25.547	1.00	100.04	C
ATOM	10926	CE1	TYR	C1013	64.549	65.102	24.307	1.00	100.04	C
ATOM	10927	CD2	TYR	C1013	64.705	63.559	26.620	1.00	100.04	C
ATOM	10928	CE2	TYR	C1013	64.485	62.949	25.377	1.00	100.04	C
ATOM	10929	CZ	TYR	C1013	64.413	63.728	24.233	1.00	100.04	C
ATOM	10930	OH	TYR	C1013	64.227	63.125	23.017	1.00	100.04	C
ATOM	10931	C	TYR	C1013	64.218	67.924	27.906	1.00	62.41	C
ATOM	10932	O	TYR	C1013	63.745	68.936	28.418	1.00	62.41	C
ATOM	10933	N	SER	C1014	64.986	67.930	26.814	1.00	52.58	C
ATOM	10934	CA	SER	C1014	65.367	69.086	25.995	1.00	52.58	C
ATOM	10935	CB	SER	C1014	65.380	70.392	26.780	1.00	59.15	C
ATOM	10936	OG	SER	C1014	65.978	71.421	26.000	1.00	59.15	C
ATOM	10937	C	SER	C1014	66.776	68.824	25.481	1.00	52.58	C
ATOM	10938	O	SER	C1014	67.646	68.403	26.244	1.00	52.58	C
ATOM	10939	N	LEU	C1015	67.002	69.078	24.195	1.00	54.93	C
ATOM	10940	CA	LEU	C1015	68.310	68.848	23.582	1.00	54.93	C
ATOM	10941	CB	LEU	C1015	68.167	67.947	22.352	1.00	38.30	C
ATOM	10942	CG	LEU	C1015	66.809	67.947	21.631	1.00	38.30	C
ATOM	10943	CD1	LEU	C1015	66.450	69.345	21.148	1.00	38.30	C
ATOM	10944	CD2	LEU	C1015	66.858	66.959	20.457	1.00	38.30	C
ATOM	10945	C	LEU	C1015	69.046	70.115	23.189	1.00	54.93	C
ATOM	10946	O	LEU	C1015	69.899	70.087	22.301	1.00	54.93	C
ATOM	10947	N	ILE	C1016	68.713	71.225	23.840	1.00	64.83	C
ATOM	10948	CA	ILE	C1016	69.376	72.487	23.552	1.00	64.83	C
ATOM	10949	CB	ILE	C1016	68.432	73.527	22.965	1.00	83.86	C
ATOM	10950	CG2	ILE	C1016	69.248	74.637	22.329	1.00	83.86	C
ATOM	10951	CG1	ILE	C1016	67.502	72.882	21.936	1.00	83.86	C
ATOM	10952	CD	ILE	C1016	66.285	72.200	22.550	1.00	83.86	C
ATOM	10953	C	ILE	C1016	69.931	73.054	24.839	1.00	64.83	C
ATOM	10954	O	ILE	C1016	71.100	73.437	24.890	1.00	64.83	C
ATOM	10955	N	THR	C1017	69.090	73.117	25.874	1.00	26.78	C
ATOM	10956	CA	THR	C1017	69.517	73.623	27.182	1.00	26.78	C
ATOM	10957	CB	THR	C1017	68.554	74.683	27.726	1.00	35.77	C
ATOM	10958	OG1	THR	C1017	67.344	74.678	26.955	1.00	35.77	C
ATOM	10959	CG2	THR	C1017	69.207	76.051	27.679	1.00	35.77	C
ATOM	10960	C	THR	C1017	69.631	72.508	28.218	1.00	26.78	C
ATOM	10961	O	THR	C1017	70.092	72.733	29.328	1.00	26.78	C
ATOM	10962	N	GLN	C1018	69.197	71.310	27.843	1.00	33.99	C
ATOM	10963	CA	GLN	C1018	69.247	70.134	28.703	1.00	33.99	C
ATOM	10964	CB	GLN	C1018	70.675	69.897	29.176	1.00	91.29	C
ATOM	10965	CG	GLN	C1018	71.247	68.598	28.663	1.00	91.29	C
ATOM	10966	CD	GLN	C1018	70.326	67.424	28.920	1.00	91.29	C

ATOM	10967	OE1	GLN	C1018	69.218	67.364	28.388	1.00	91.29	C
ATOM	10968	NE2	GLN	C1018	70.778	66.483	29.742	1.00	91.29	C
ATOM	10969	C	GLN	C1018	68.305	70.096	29.907	1.00	33.99	C
ATOM	10970	O	GLN	C1018	68.167	69.054	30.557	1.00	33.99	C
ATOM	10971	N	GLN	C1019	67.666	71.217	30.223	1.00	44.02	C
ATOM	10972	CA	GLN	C1019	66.731	71.232	31.342	1.00	44.02	C
ATOM	10973	CB	GLN	C1019	67.025	72.415	32.273	1.00	30.53	C
ATOM	10974	CG	GLN	C1019	67.290	73.725	31.560	1.00	30.53	C
ATOM	10975	CD	GLN	C1019	67.411	74.907	32.515	1.00	30.53	C
ATOM	10976	OE1	GLN	C1019	68.344	74.992	33.320	1.00	30.53	C
ATOM	10977	NE2	GLN	C1019	66.459	75.829	32.425	1.00	30.53	C
ATOM	10978	C	GLN	C1019	65.280	71.275	30.829	1.00	44.02	C
ATOM	10979	O	GLN	C1019	64.965	72.004	29.884	1.00	44.02	C
ATOM	10980	N	PRO	C1020	64.381	70.499	31.464	1.00	42.70	C
ATOM	10981	CD	PRO	C1020	64.652	70.085	32.856	1.00	38.29	C
ATOM	10982	CA	PRO	C1020	62.950	70.354	31.166	1.00	42.70	C
ATOM	10983	CB	PRO	C1020	62.323	70.349	32.549	1.00	38.29	C
ATOM	10984	CG	PRO	C1020	63.308	69.559	33.335	1.00	38.29	C
ATOM	10985	C	PRO	C1020	62.323	71.409	30.257	1.00	42.70	C
ATOM	10986	O	PRO	C1020	62.444	72.607	30.503	1.00	42.70	C
ATOM	10987	N	LEU	C1021	61.642	70.951	29.212	1.00	85.35	C
ATOM	10988	CA	LEU	C1021	60.982	71.844	28.262	1.00	85.35	C
ATOM	10989	CB	LEU	C1021	61.970	72.872	27.711	1.00	99.93	C
ATOM	10990	CG	LEU	C1021	61.389	74.271	27.509	1.00	99.93	C
ATOM	10991	CD1	LEU	C1021	60.152	74.200	26.615	1.00	99.93	C
ATOM	10992	CD2	LEU	C1021	61.038	74.865	28.866	1.00	99.93	C
ATOM	10993	C	LEU	C1021	60.374	71.042	27.110	1.00	85.35	C
ATOM	10994	O	LEU	C1021	60.953	70.058	26.644	1.00	85.35	C
ATOM	10995	N	GLY	C1022	59.210	71.476	26.642	1.00	100.07	C
ATOM	10996	CA	GLY	C1022	58.537	70.754	25.581	1.00	100.07	C
ATOM	10997	C	GLY	C1022	57.750	69.623	26.228	1.00	100.07	C
ATOM	10998	O	GLY	C1022	57.907	69.367	27.428	1.00	100.07	C
ATOM	10999	N	GLY	C1023	56.897	68.954	25.450	1.00	100.07	C
ATOM	11000	CA	GLY	C1023	56.107	67.856	25.991	1.00	100.07	C
ATOM	11001	C	GLY	C1023	55.164	67.123	25.046	1.00	100.07	C
ATOM	11002	O	GLY	C1023	53.944	67.333	25.086	1.00	100.07	C
ATOM	11003	N	LYS	C1024	55.722	66.257	24.201	1.00	100.07	C
ATOM	11004	CA	LYS	C1024	54.920	65.478	23.266	1.00	100.07	C
ATOM	11005	CB	LYS	C1024	55.802	64.878	22.164	1.00	97.81	C
ATOM	11006	CG	LYS	C1024	56.619	65.896	21.368	1.00	97.81	C
ATOM	11007	CD	LYS	C1024	57.317	65.261	20.153	1.00	97.81	C
ATOM	11008	CE	LYS	C1024	58.382	64.231	20.541	1.00	97.81	C
ATOM	11009	NZ	LYS	C1024	58.971	63.543	19.354	1.00	97.81	C
ATOM	11010	C	LYS	C1024	54.258	64.357	24.066	1.00	100.07	C
ATOM	11011	O	LYS	C1024	54.358	63.179	23.698	1.00	100.07	C
ATOM	11012	N	ALA	C1025	53.594	64.745	25.161	1.00	54.60	C
ATOM	11013	CA	ALA	C1025	52.903	63.827	26.074	1.00	54.60	C
ATOM	11014	CB	ALA	C1025	53.623	62.458	26.112	1.00	13.33	C
ATOM	11015	C	ALA	C1025	52.851	64.425	27.485	1.00	54.60	C
ATOM	11016	O	ALA	C1025	51.858	65.020	27.892	1.00	54.60	C
ATOM	11017	N	GLN	C1026	53.942	64.263	28.223	1.00	68.80	C
ATOM	11018	CA	GLN	C1026	54.028	64.768	29.589	1.00	68.80	C
ATOM	11019	CB	GLN	C1026	55.327	64.297	30.255	1.00	100.07	C
ATOM	11020	CG	GLN	C1026	55.659	62.815	30.046	1.00	100.07	C
ATOM	11021	CD	GLN	C1026	56.471	62.555	28.782	1.00	100.07	C
ATOM	11022	OE1	GLN	C1026	56.049	62.885	27.673	1.00	100.07	C
ATOM	11023	NE2	GLN	C1026	57.645	61.955	28.949	1.00	100.07	C
ATOM	11024	C	GLN	C1026	53.971	66.283	29.625	1.00	68.80	C
ATOM	11025	O	GLN	C1026	53.210	66.857	30.397	1.00	68.80	C
ATOM	11026	N	PHE	C1027	54.793	66.918	28.795	1.00	58.78	C
ATOM	11027	CA	PHE	C1027	54.853	68.372	28.711	1.00	58.78	C
ATOM	11028	CB	PHE	C1027	53.586	68.887	28.011	1.00	99.80	C
ATOM	11029	CG	PHE	C1027	53.797	70.128	27.168	1.00	99.80	C
ATOM	11030	CD1	PHE	C1027	52.740	70.662	26.426	1.00	99.80	C
ATOM	11031	CD2	PHE	C1027	55.038	70.761	27.107	1.00	99.80	C
ATOM	11032	CE1	PHE	C1027	52.914	71.809	25.640	1.00	99.80	C
ATOM	11033	CE2	PHE	C1027	55.224	71.910	26.323	1.00	99.80	C
ATOM	11034	CZ	PHE	C1027	54.160	72.432	25.586	1.00	99.80	C
ATOM	11035	C	PHE	C1027	54.994	68.985	30.109	1.00	58.78	C
ATOM	11036	O	PHE	C1027	54.869	68.291	31.123	1.00	58.78	C
ATOM	11037	N	GLY	C1028	55.267	70.283	30.162	1.00	82.86	C
ATOM	11038	CA	GLY	C1028	55.409	70.946	31.444	1.00	82.86	C
ATOM	11039	C	GLY	C1028	56.683	71.753	31.521	1.00	82.86	C
ATOM	11040	O	GLY	C1028	56.936	72.593	30.656	1.00	82.86	C
ATOM	11041	N	GLY	C1029	57.479	71.502	32.558	1.00	98.74	C
ATOM	11042	CA	GLY	C1029	58.742	72.204	32.728	1.00	98.74	C
ATOM	11043	C	GLY	C1029	58.689	73.359	33.711	1.00	98.74	C
ATOM	11044	O	GLY	C1029	58.813	74.520	33.318	1.00	98.74	C
ATOM	11045	N	GLN	C1030	58.530	73.045	34.993	1.00	59.66	C
ATOM	11046	CA	GLN	C1030	58.433	74.076	36.015	1.00	59.66	C
ATOM	11047	CB	GLN	C1030	58.390	73.457	37.395	1.00	22.64	C
ATOM	11048	CG	GLN	C1030	57.748	74.394	38.355	1.00	22.64	C
ATOM	11049	CD	GLN	C1030	56.727	75.281	37.672	1.00	22.64	C
ATOM	11050	OE1	GLN	C1030	57.082	76.304	37.080	1.00	22.64	C

ATOM	11135	CG	LEU	C1040	65.075	76.292	48.237	1.00	39.12	C
ATOM	11136	CD1	LEU	C1040	63.977	75.746	49.146	1.00	39.12	C
ATOM	11137	CD2	LEU	C1040	64.511	77.399	47.377	1.00	39.12	C
ATOM	11138	C	LEU	C1040	66.952	77.945	51.246	1.00	22.00	C
ATOM	11139	O	LEU	C1040	67.016	77.444	52.366	1.00	22.00	C
ATOM	11140	N	GLU	C1041	67.853	78.812	50.789	1.00	24.23	C
ATOM	11141	CA	GLU	C1041	69.008	79.223	51.593	1.00	24.23	C
ATOM	11142	CB	GLU	C1041	69.848	80.280	50.854	1.00	17.57	C
ATOM	11143	CG	GLU	C1041	70.602	79.823	49.595	1.00	17.57	C
ATOM	11144	CD	GLU	C1041	71.273	80.994	48.855	1.00	17.57	C
ATOM	11145	OE1	GLU	C1041	70.549	81.939	48.505	1.00	17.57	C
ATOM	11146	OE2	GLU	C1041	72.500	80.988	48.618	1.00	17.57	C
ATOM	11147	C	GLU	C1041	68.533	79.830	52.917	1.00	24.23	C
ATOM	11148	O	GLU	C1041	68.859	79.317	53.990	1.00	24.23	C
ATOM	11149	N	ALA	C1042	67.768	80.927	52.816	1.00	11.12	C
ATOM	11150	CA	ALA	C1042	67.237	81.669	53.967	1.00	11.12	C
ATOM	11151	CB	ALA	C1042	65.966	82.425	53.590	1.00	58.04	C
ATOM	11152	C	ALA	C1042	66.962	80.687	55.062	1.00	11.12	C
ATOM	11153	O	ALA	C1042	67.303	80.928	56.203	1.00	11.12	C
ATOM	11154	N	TYR	C1043	66.341	79.569	54.722	1.00	37.76	C
ATOM	11155	CA	TYR	C1043	66.110	78.552	55.734	1.00	37.76	C
ATOM	11156	CB	TYR	C1043	65.239	77.400	55.214	1.00	32.84	C
ATOM	11157	CG	TYR	C1043	63.763	77.658	55.144	1.00	32.84	C
ATOM	11158	CD1	TYR	C1043	63.196	78.229	54.024	1.00	32.84	C
ATOM	11159	CE1	TYR	C1043	61.838	78.423	53.948	1.00	32.84	C
ATOM	11160	CD2	TYR	C1043	62.927	77.292	56.193	1.00	32.84	C
ATOM	11161	CE2	TYR	C1043	61.572	77.484	56.125	1.00	32.84	C
ATOM	11162	CZ	TYR	C1043	61.033	78.046	54.999	1.00	32.84	C
ATOM	11163	OH	TYR	C1043	59.678	78.214	54.896	1.00	32.84	C
ATOM	11164	C	TYR	C1043	67.486	77.970	55.979	1.00	37.76	C
ATOM	11165	O	TYR	C1043	68.415	78.611	56.468	1.00	37.76	C
ATOM	11166	N	GLY	C1044	67.577	76.724	55.572	1.00	30.65	C
ATOM	11167	CA	GLY	C1044	68.772	75.941	55.667	1.00	30.65	C
ATOM	11168	C	GLY	C1044	68.100	74.715	55.125	1.00	30.65	C
ATOM	11169	O	GLY	C1044	67.077	74.293	55.663	1.00	30.65	C
ATOM	11170	N	ALA	C1045	68.616	74.174	54.039	1.00	28.37	C
ATOM	11171	CA	ALA	C1045	68.007	72.999	53.475	1.00	28.37	C
ATOM	11172	CB	ALA	C1045	66.599	73.309	53.066	1.00	5.07	C
ATOM	11173	C	ALA	C1045	68.818	72.594	52.278	1.00	28.37	C
ATOM	11174	O	ALA	C1045	68.378	71.779	51.470	1.00	28.37	C
ATOM	11175	N	ALA	C1046	70.008	73.175	52.175	1.00	24.84	C
ATOM	11176	CA	ALA	C1046	70.913	72.916	51.066	1.00	24.84	C
ATOM	11177	CB	ALA	C1046	72.342	72.826	51.574	1.00	42.88	C
ATOM	11178	C	ALA	C1046	70.532	71.651	50.307	1.00	24.84	C
ATOM	11179	O	ALA	C1046	70.229	71.710	49.108	1.00	24.84	C
ATOM	11180	N	HIS	C1047	70.511	70.516	51.006	1.00	19.24	C
ATOM	11181	CA	HIS	C1047	70.163	69.264	50.343	1.00	19.24	C
ATOM	11182	CB	HIS	C1047	70.054	68.134	51.365	1.00	99.82	C
ATOM	11183	CG	HIS	C1047	71.384	67.597	51.793	1.00	99.82	C
ATOM	11184	CD2	HIS	C1047	72.044	67.677	52.973	1.00	99.82	C
ATOM	11185	ND1	HIS	C1047	72.224	66.923	50.933	1.00	99.82	C
ATOM	11186	CE1	HIS	C1047	73.341	66.612	51.564	1.00	99.82	C
ATOM	11187	NE2	HIS	C1047	73.258	67.057	52.804	1.00	99.82	C
ATOM	11188	C	HIS	C1047	68.897	69.378	49.507	1.00	19.24	C
ATOM	11189	O	HIS	C1047	68.895	69.004	48.335	1.00	19.24	C
ATOM	11190	N	THR	C1048	67.832	69.908	50.100	1.00	34.66	C
ATOM	11191	CA	THR	C1048	66.573	70.091	49.387	1.00	34.66	C
ATOM	11192	CB	THR	C1048	65.543	70.846	50.219	1.00	41.37	C
ATOM	11193	OG1	THR	C1048	65.303	70.152	51.449	1.00	41.37	C
ATOM	11194	CG2	THR	C1048	64.251	70.969	49.437	1.00	41.37	C
ATOM	11195	C	THR	C1048	66.840	70.938	48.162	1.00	34.66	C
ATOM	11196	O	THR	C1048	66.300	70.676	47.087	1.00	34.66	C
ATOM	11197	N	LEU	C1049	67.667	71.967	48.345	1.00	27.07	C
ATOM	11198	CA	LEU	C1049	68.023	72.868	47.257	1.00	27.07	C
ATOM	11199	CB	LEU	C1049	68.731	74.114	47.780	1.00	22.64	C
ATOM	11200	CG	LEU	C1049	69.247	74.954	46.612	1.00	22.64	C
ATOM	11201	CD1	LEU	C1049	68.099	75.267	45.712	1.00	22.64	C
ATOM	11202	CD2	LEU	C1049	69.876	76.229	47.092	1.00	22.64	C
ATOM	11203	C	LEU	C1049	68.932	72.182	46.253	1.00	27.07	C
ATOM	11204	O	LEU	C1049	68.747	72.327	45.050	1.00	27.07	C
ATOM	11205	N	GLN	C1050	69.923	71.451	46.761	1.00	66.41	C
ATOM	11206	CA	GLN	C1050	70.876	70.723	45.922	1.00	66.41	C
ATOM	11207	CB	GLN	C1050	71.708	69.755	46.799	1.00	41.38	C
ATOM	11208	CG	GLN	C1050	72.482	68.615	46.064	1.00	41.38	C
ATOM	11209	CD	GLN	C1050	73.972	68.892	45.839	1.00	41.38	C
ATOM	11210	OE1	GLN	C1050	74.836	68.180	46.370	1.00	41.38	C
ATOM	11211	NE2	GLN	C1050	74.275	69.919	45.040	1.00	41.38	C
ATOM	11212	C	GLN	C1050	70.112	69.955	44.842	1.00	66.41	C
ATOM	11213	O	GLN	C1050	70.372	70.096	43.647	1.00	66.41	C
ATOM	11214	N	GLU	C1051	69.149	69.155	45.277	1.00	40.71	C
ATOM	11215	CA	GLU	C1051	68.348	68.356	44.369	1.00	40.71	C
ATOM	11216	CB	GLU	C1051	67.360	67.539	45.202	1.00	62.66	C
ATOM	11217	CG	GLU	C1051	66.053	67.266	44.533	1.00	62.66	C
ATOM	11218	CD	GLU	C1051	64.899	67.678	45.406	1.00	62.66	C

ATOM	11219	OE1	GLU	C1051	64.906	68.845	45.863	1.00	62.66	C
ATOM	11220	OE2	GLU	C1051	63.993	66.845	45.634	1.00	62.66	C
ATOM	11221	C	GLU	C1051	67.629	69.208	43.311	1.00	40.71	C
ATOM	11222	O	GLU	C1051	67.284	68.722	42.232	1.00	40.71	C
ATOM	11223	N	MET	C1052	67.430	70.485	43.619	1.00	32.41	C
ATOM	11224	CA	MET	C1052	66.747	71.398	42.709	1.00	32.41	C
ATOM	11225	CB	MET	C1052	66.161	72.579	43.502	1.00	42.69	C
ATOM	11226	CG	MET	C1052	64.869	73.182	42.934	1.00	42.69	C
ATOM	11227	SD	MET	C1052	63.531	73.306	44.174	1.00	42.69	C
ATOM	11228	CE	MET	C1052	62.247	72.140	43.492	1.00	42.69	C
ATOM	11229	C	MET	C1052	67.708	71.891	41.635	1.00	32.41	C
ATOM	11230	O	MET	C1052	67.325	72.637	40.750	1.00	32.41	C
ATOM	11231	N	LEU	C1053	68.962	71.470	41.719	1.00	43.50	C
ATOM	11232	CA	LEU	C1053	69.964	71.856	40.725	1.00	43.50	C
ATOM	11233	CB	LEU	C1053	70.862	72.978	41.248	1.00	50.10	C
ATOM	11234	CG	LEU	C1053	70.235	74.357	41.380	1.00	50.10	C
ATOM	11235	CD1	LEU	C1053	69.204	74.517	40.270	1.00	50.10	C
ATOM	11236	CD2	LEU	C1053	69.596	74.515	42.737	1.00	50.10	C
ATOM	11237	C	LEU	C1053	70.850	70.680	40.330	1.00	43.50	C
ATOM	11238	O	LEU	C1053	71.884	70.863	39.688	1.00	43.50	C
ATOM	11239	N	THR	C1054	70.436	69.477	40.709	1.00	33.33	C
ATOM	11240	CA	THR	C1054	71.205	68.284	40.414	1.00	33.33	C
ATOM	11241	CB	THR	C1054	71.851	67.779	41.679	1.00	40.94	C
ATOM	11242	OG1	THR	C1054	72.488	68.884	42.327	1.00	40.94	C
ATOM	11243	CG2	THR	C1054	72.881	66.704	41.372	1.00	40.94	C
ATOM	11244	C	THR	C1054	70.324	67.197	39.849	1.00	33.33	C
ATOM	11245	O	THR	C1054	70.114	67.115	38.649	1.00	33.33	C
ATOM	11246	N	ILE	C1055	69.803	66.364	40.733	1.00	24.89	C
ATOM	11247	CA	ILE	C1055	68.939	65.278	40.331	1.00	24.89	C
ATOM	11248	CB	ILE	C1055	68.460	64.454	41.540	1.00	67.79	C
ATOM	11249	CG2	ILE	C1055	68.880	63.009	41.383	1.00	67.79	C
ATOM	11250	CG1	ILE	C1055	68.998	65.054	42.839	1.00	67.79	C
ATOM	11251	CD	ILE	C1055	70.508	64.940	43.008	1.00	67.79	C
ATOM	11252	C	ILE	C1055	67.691	65.788	39.641	1.00	24.89	C
ATOM	11253	O	ILE	C1055	66.758	65.015	39.452	1.00	24.89	C
ATOM	11254	N	LYS	C1056	67.644	67.062	39.250	1.00	42.15	C
ATOM	11255	CA	LYS	C1056	66.423	67.568	38.619	1.00	42.15	C
ATOM	11256	CB	LYS	C1056	65.529	68.248	39.689	1.00	23.57	C
ATOM	11257	CG	LYS	C1056	64.829	67.265	40.664	1.00	23.57	C
ATOM	11258	CD	LYS	C1056	63.533	67.836	41.280	1.00	23.57	C
ATOM	11259	CE	LYS	C1056	63.761	68.665	42.566	1.00	23.57	C
ATOM	11260	NZ	LYS	C1056	62.494	69.220	43.178	1.00	23.57	C
ATOM	11261	C	LYS	C1056	66.473	68.456	37.371	1.00	42.15	C
ATOM	11262	O	LYS	C1056	65.741	69.437	37.296	1.00	42.15	C
ATOM	11263	N	SER	C1057	67.312	68.114	36.396	1.00	40.15	C
ATOM	11264	CA	SER	C1057	67.382	68.869	35.130	1.00	40.15	C
ATOM	11265	CB	SER	C1057	66.988	70.349	35.330	1.00	37.27	C
ATOM	11266	OG	SER	C1057	67.872	71.033	36.192	1.00	37.27	C
ATOM	11267	C	SER	C1057	68.681	68.817	34.307	1.00	40.15	C
ATOM	11268	O	SER	C1057	68.688	68.326	33.174	1.00	40.15	C
ATOM	11269	N	ASP	C1058	69.769	69.330	34.863	1.00	51.84	C
ATOM	11270	CA	ASP	C1058	71.036	69.348	34.152	1.00	51.84	C
ATOM	11271	CB	ASP	C1058	71.844	70.555	34.604	1.00	65.21	C
ATOM	11272	CG	ASP	C1058	70.991	71.786	34.783	1.00	65.21	C
ATOM	11273	OD1	ASP	C1058	70.361	72.206	33.794	1.00	65.21	C
ATOM	11274	OD2	ASP	C1058	70.945	72.331	35.908	1.00	65.21	C
ATOM	11275	C	ASP	C1058	71.861	68.078	34.361	1.00	51.84	C
ATOM	11276	O	ASP	C1058	72.364	67.500	33.399	1.00	51.84	C
ATOM	11277	N	ASP	C1059	72.006	67.663	35.622	1.00	29.52	C
ATOM	11278	CA	ASP	C1059	72.782	66.475	36.006	1.00	29.52	C
ATOM	11279	CB	ASP	C1059	72.965	66.428	37.527	1.00	52.58	C
ATOM	11280	CG	ASP	C1059	73.736	65.193	37.995	1.00	52.58	C
ATOM	11281	OD1	ASP	C1059	73.437	64.075	37.542	1.00	52.58	C
ATOM	11282	OD2	ASP	C1059	74.640	65.334	38.842	1.00	52.58	C
ATOM	11283	C	ASP	C1059	72.151	65.170	35.567	1.00	29.52	C
ATOM	11284	O	ASP	C1059	71.623	64.421	36.391	1.00	29.52	C
ATOM	11285	N	ILE	C1060	72.200	64.895	34.274	1.00	46.88	C
ATOM	11286	CA	ILE	C1060	71.652	63.653	33.753	1.00	46.88	C
ATOM	11287	CB	ILE	C1060	72.311	63.308	32.418	1.00	33.49	C
ATOM	11288	CG2	ILE	C1060	71.391	63.699	31.292	1.00	33.49	C
ATOM	11289	CG1	ILE	C1060	73.623	64.094	32.262	1.00	33.49	C
ATOM	11290	CD	ILE	C1060	74.665	63.904	33.382	1.00	33.49	C
ATOM	11291	C	ILE	C1060	71.824	62.488	34.742	1.00	46.88	C
ATOM	11292	O	ILE	C1060	70.878	61.733	34.989	1.00	46.88	C
ATOM	11293	N	GLU	C1061	73.023	62.353	35.312	1.00	35.88	C
ATOM	11294	CA	GLU	C1061	73.293	61.303	36.286	1.00	35.88	C
ATOM	11295	CB	GLU	C1061	74.505	61.660	37.144	1.00	100.07	C
ATOM	11296	CG	GLU	C1061	75.682	62.187	36.368	1.00	100.07	C
ATOM	11297	CD	GLU	C1061	76.374	61.106	35.582	1.00	100.07	C
ATOM	11298	OE1	GLU	C1061	75.690	60.418	34.794	1.00	100.07	C
ATOM	11299	OE2	GLU	C1061	77.601	60.946	35.756	1.00	100.07	C
ATOM	11300	C	GLU	C1061	72.076	61.279	37.183	1.00	35.88	C
ATOM	11301	O	GLU	C1061	71.344	60.286	37.254	1.00	35.88	C
ATOM	11302	N	GLY	C1062	71.869	62.409	37.852	1.00	36.80	C

ATOM	11471	O	SER	C1084	82.407	71.330	36.635	1.00	53.04	C
ATOM	11472	N	PHE	C1085	81.341	69.445	37.291	1.00	51.88	C
ATOM	11473	CA	PHE	C1085	81.991	68.597	36.294	1.00	51.88	C
ATOM	11474	CB	PHE	C1085	81.083	67.419	35.890	1.00	84.41	C
ATOM	11475	CG	PHE	C1085	81.210	66.179	36.767	1.00	84.41	C
ATOM	11476	CD1	PHE	C1085	81.989	66.173	37.921	1.00	84.41	C
ATOM	11477	CD2	PHE	C1085	80.531	65.003	36.425	1.00	84.41	C
ATOM	11478	CE1	PHE	C1085	82.093	65.017	38.715	1.00	84.41	C
ATOM	11479	CE2	PHE	C1085	80.631	63.845	37.216	1.00	84.41	C
ATOM	11480	CZ	PHE	C1085	81.411	63.857	38.358	1.00	84.41	C
ATOM	11481	C	PHE	C1085	82.243	69.480	35.071	1.00	51.88	C
ATOM	11482	O	PHE	C1085	83.388	69.670	34.662	1.00	51.88	C
ATOM	11483	N	ARG	C1086	81.167	70.055	34.527	1.00	54.45	C
ATOM	11484	CA	ARG	C1086	81.229	70.916	33.343	1.00	54.45	C
ATOM	11485	CB	ARG	C1086	79.822	71.280	32.861	1.00	76.54	C
ATOM	11486	CG	ARG	C1086	79.819	72.179	31.612	1.00	76.54	C
ATOM	11487	CD	ARG	C1086	78.552	73.040	31.477	1.00	76.54	C
ATOM	11488	NE	ARG	C1086	78.614	74.262	32.287	1.00	76.54	C
ATOM	11489	CZ	ARG	C1086	77.643	75.174	32.371	1.00	76.54	C
ATOM	11490	NH1	ARG	C1086	76.514	75.015	31.691	1.00	76.54	C
ATOM	11491	NH2	ARG	C1086	77.803	76.249	33.138	1.00	76.54	C
ATOM	11492	C	ARG	C1086	82.013	72.215	33.466	1.00	54.45	C
ATOM	11493	O	ARG	C1086	82.718	72.583	32.534	1.00	54.45	C
ATOM	11494	N	VAL	C1087	81.887	72.921	34.586	1.00	65.75	C
ATOM	11495	CA	VAL	C1087	82.589	74.195	34.726	1.00	65.75	C
ATOM	11496	CB	VAL	C1087	82.750	74.651	36.196	1.00	36.34	C
ATOM	11497	CG1	VAL	C1087	82.631	76.185	36.291	1.00	36.34	C
ATOM	11498	CG2	VAL	C1087	81.737	73.994	37.054	1.00	36.34	C
ATOM	11499	C	VAL	C1087	83.978	74.120	34.125	1.00	65.75	C
ATOM	11500	O	VAL	C1087	84.156	74.353	32.933	1.00	65.75	C
ATOM	11501	N	LEU	C1088	84.956	73.797	34.960	1.00	74.07	C
ATOM	11502	CA	LEU	C1088	86.346	73.700	34.540	1.00	74.07	C
ATOM	11503	CB	LEU	C1088	87.051	72.638	35.350	1.00	38.61	C
ATOM	11504	CG	LEU	C1088	86.196	72.103	36.479	1.00	38.61	C
ATOM	11505	CD1	LEU	C1088	86.871	70.878	37.098	1.00	38.61	C
ATOM	11506	CD2	LEU	C1088	85.981	73.212	37.498	1.00	38.61	C
ATOM	11507	C	LEU	C1088	86.525	73.357	33.074	1.00	74.07	C
ATOM	11508	O	LEU	C1088	87.253	74.031	32.349	1.00	74.07	C
ATOM	11509	N	VAL	C1089	85.867	72.292	32.638	1.00	39.99	C
ATOM	11510	CA	VAL	C1089	86.002	71.870	31.263	1.00	39.99	C
ATOM	11511	CB	VAL	C1089	85.228	70.581	31.022	1.00	29.96	C
ATOM	11512	CG1	VAL	C1089	85.238	70.251	29.554	1.00	29.96	C
ATOM	11513	CG2	VAL	C1089	85.873	69.438	31.826	1.00	29.96	C
ATOM	11514	C	VAL	C1089	85.574	72.960	30.298	1.00	39.99	C
ATOM	11515	O	VAL	C1089	85.983	72.965	29.147	1.00	39.99	C
ATOM	11516	N	LYS	C1090	84.756	73.893	30.760	1.00	33.87	C
ATOM	11517	CA	LYS	C1090	84.347	74.999	29.903	1.00	33.87	C
ATOM	11518	CB	LYS	C1090	82.952	75.500	30.276	1.00	53.31	C
ATOM	11519	CG	LYS	C1090	81.852	74.457	30.144	1.00	53.31	C
ATOM	11520	CD	LYS	C1090	80.478	75.101	30.093	1.00	53.31	C
ATOM	11521	CE	LYS	C1090	80.221	75.777	28.755	1.00	53.31	C
ATOM	11522	NZ	LYS	C1090	81.179	76.865	28.435	1.00	53.31	C
ATOM	11523	C	LYS	C1090	85.374	76.102	30.135	1.00	33.87	C
ATOM	11524	O	LYS	C1090	85.407	77.100	29.417	1.00	33.87	C
ATOM	11525	N	GLU	C1091	86.208	75.885	31.154	1.00	65.89	C
ATOM	11526	CA	GLU	C1091	87.287	76.791	31.560	1.00	65.89	C
ATOM	11527	CB	GLU	C1091	87.625	76.570	33.031	1.00	57.58	C
ATOM	11528	CG	GLU	C1091	86.593	77.100	33.978	1.00	57.58	C
ATOM	11529	CD	GLU	C1091	86.758	78.578	34.201	1.00	57.58	C
ATOM	11530	OE1	GLU	C1091	87.135	79.279	33.234	1.00	57.58	C
ATOM	11531	OE2	GLU	C1091	86.507	79.036	35.336	1.00	57.58	C
ATOM	11532	C	GLU	C1091	88.542	76.532	30.738	1.00	65.89	C
ATOM	11533	O	GLU	C1091	88.989	77.387	29.976	1.00	65.89	C
ATOM	11534	N	LEU	C1092	89.122	75.349	30.926	1.00	55.18	C
ATOM	11535	CA	LEU	C1092	90.312	74.968	30.184	1.00	55.18	C
ATOM	11536	CB	LEU	C1092	90.609	73.475	30.353	1.00	23.92	C
ATOM	11537	CG	LEU	C1092	89.821	72.609	31.339	1.00	23.92	C
ATOM	11538	CD1	LEU	C1092	90.415	71.199	31.352	1.00	23.92	C
ATOM	11539	CD2	LEU	C1092	89.873	73.218	32.725	1.00	23.92	C
ATOM	11540	C	LEU	C1092	89.970	75.253	28.739	1.00	55.18	C
ATOM	11541	O	LEU	C1092	90.822	75.627	27.940	1.00	55.18	C
ATOM	11542	N	GLN	C1093	88.694	75.064	28.427	1.00	33.59	C
ATOM	11543	CA	GLN	C1093	88.158	75.310	27.103	1.00	33.59	C
ATOM	11544	CB	GLN	C1093	86.637	75.319	27.172	1.00	100.07	C
ATOM	11545	CG	GLN	C1093	85.955	76.005	26.010	1.00	100.07	C
ATOM	11546	CD	GLN	C1093	84.457	76.056	26.193	1.00	100.07	C
ATOM	11547	OE1	GLN	C1093	83.962	76.508	27.229	1.00	100.07	C
ATOM	11548	NE2	GLN	C1093	83.723	75.589	25.189	1.00	100.07	C
ATOM	11549	C	GLN	C1093	88.671	76.668	26.661	1.00	33.59	C
ATOM	11550	O	GLN	C1093	88.684	77.007	25.470	1.00	33.59	C
ATOM	11551	N	ALA	C1094	89.053	77.453	27.656	1.00	49.86	C
ATOM	11552	CA	ALA	C1094	89.628	78.762	27.443	1.00	49.86	C
ATOM	11553	CB	ALA	C1094	88.832	79.817	28.182	1.00	56.04	C
ATOM	11554	C	ALA	C1094	90.999	78.562	28.073	1.00	49.86	C

ATOM	11555	O	ALA	C1094	91.138	77.779	29.018	1.00	49.86	C
ATOM	11556	N	LEU	C1095	92.007	79.245	27.544	1.00	96.35	C
ATOM	11557	CA	LEU	C1095	93.367	79.096	28.042	1.00	96.35	C
ATOM	11558	CB	LEU	C1095	94.199	80.342	27.705	1.00	99.56	C
ATOM	11559	CG	LEU	C1095	94.526	80.615	26.226	1.00	99.56	C
ATOM	11560	CD1	LEU	C1095	95.628	81.667	26.144	1.00	99.56	C
ATOM	11561	CD2	LEU	C1095	94.986	79.337	25.520	1.00	99.56	C
ATOM	11562	C	LEU	C1095	93.467	78.790	29.533	1.00	96.35	C
ATOM	11563	O	LEU	C1095	94.422	78.146	29.974	1.00	96.35	C
ATOM	11564	N	ALA	C1096	92.477	79.237	30.304	1.00	99.47	C
ATOM	11565	CA	ALA	C1096	92.462	79.017	31.749	1.00	99.47	C
ATOM	11566	CB	ALA	C1096	91.344	79.847	32.385	1.00	59.09	C
ATOM	11567	C	ALA	C1096	92.309	77.546	32.141	1.00	99.47	C
ATOM	11568	O	ALA	C1096	91.527	77.217	33.033	1.00	99.47	C
ATOM	11569	N	LEU	C1097	93.060	76.662	31.488	1.00	99.01	C
ATOM	11570	CA	LEU	C1097	92.975	75.242	31.812	1.00	99.01	C
ATOM	11571	CB	LEU	C1097	93.854	74.395	30.866	1.00	80.69	C
ATOM	11572	CG	LEU	C1097	93.611	72.870	30.762	1.00	80.69	C
ATOM	11573	CD1	LEU	C1097	93.789	72.419	29.315	1.00	80.69	C
ATOM	11574	CD2	LEU	C1097	94.541	72.099	31.687	1.00	80.69	C
ATOM	11575	C	LEU	C1097	93.401	75.053	33.260	1.00	99.01	C
ATOM	11576	O	LEU	C1097	93.713	76.015	33.963	1.00	99.01	C
ATOM	11577	N	ASP	C1098	93.402	73.795	33.682	1.00	100.07	C
ATOM	11578	CA	ASP	C1098	93.758	73.418	35.040	1.00	100.07	C
ATOM	11579	CB	ASP	C1098	95.266	73.457	35.249	1.00	100.07	C
ATOM	11580	CG	ASP	C1098	95.804	72.141	35.762	1.00	100.07	C
ATOM	11581	OD1	ASP	C1098	95.137	71.531	36.629	1.00	100.07	C
ATOM	11582	OD2	ASP	C1098	96.893	71.726	35.297	1.00	100.07	C
ATOM	11583	C	ASP	C1098	93.101	74.345	36.030	1.00	100.07	C
ATOM	11584	O	ASP	C1098	93.772	75.180	36.647	1.00	100.07	C
ATOM	11585	N	VAL	C1099	91.786	74.221	36.164	1.00	52.69	C
ATOM	11586	CA	VAL	C1099	91.072	75.037	37.121	1.00	52.69	C
ATOM	11587	CB	VAL	C1099	89.621	74.624	37.240	1.00	42.70	C
ATOM	11588	CG1	VAL	C1099	88.781	75.321	36.190	1.00	42.70	C
ATOM	11589	CG2	VAL	C1099	89.541	73.121	37.115	1.00	42.70	C
ATOM	11590	C	VAL	C1099	91.783	74.722	38.414	1.00	52.69	C
ATOM	11591	O	VAL	C1099	91.812	75.541	39.321	1.00	52.69	C
ATOM	11592	N	GLN	C1100	92.359	73.523	38.485	1.00	36.26	C
ATOM	11593	CA	GLN	C1100	93.134	73.126	39.655	1.00	36.26	C
ATOM	11594	CB	GLN	C1100	94.151	74.247	39.966	1.00	100.07	C
ATOM	11595	CG	GLN	C1100	95.150	73.996	41.090	1.00	100.07	C
ATOM	11596	CD	GLN	C1100	95.834	75.271	41.560	1.00	100.07	C
ATOM	11597	OE1	GLN	C1100	95.167	76.264	41.879	1.00	100.07	C
ATOM	11598	NE2	GLN	C1100	97.169	75.245	41.628	1.00	100.07	C
ATOM	11599	C	GLN	C1100	92.306	72.818	40.897	1.00	36.26	C
ATOM	11600	O	GLN	C1100	92.481	73.463	41.924	1.00	36.26	C
ATOM	11601	N	LEU	C1101	91.415	71.837	40.814	1.00	76.28	C
ATOM	11602	CA	LEU	C1101	90.584	71.435	41.945	1.00	76.28	C
ATOM	11603	CB	LEU	C1101	89.785	70.216	41.531	1.00	70.02	C
ATOM	11604	CG	LEU	C1101	89.202	69.415	42.667	1.00	70.02	C
ATOM	11605	CD1	LEU	C1101	88.296	70.299	43.506	1.00	70.02	C
ATOM	11606	CD2	LEU	C1101	88.459	68.252	42.084	1.00	70.02	C
ATOM	11607	C	LEU	C1101	91.452	71.137	43.188	1.00	76.28	C
ATOM	11608	O	LEU	C1101	92.672	71.054	43.064	1.00	76.28	C
ATOM	11609	N	ALA	C1102	90.857	71.018	44.377	1.00	100.07	C
ATOM	11610	CA	ALA	C1102	91.648	70.757	45.592	1.00	100.07	C
ATOM	11611	CB	ALA	C1102	92.425	72.020	45.984	1.00	78.12	C
ATOM	11612	C	ALA	C1102	90.851	70.237	46.802	1.00	100.07	C
ATOM	11613	O	ALA	C1102	89.609	70.195	46.763	1.00	100.07	C
ATOM	11614	N	ALA	C1103	91.566	69.853	47.866	1.00	100.07	C
ATOM	11615	CA	ALA	C1103	90.953	69.278	49.077	1.00	100.07	C
ATOM	11616	CB	ALA	C1103	90.996	67.750	48.967	1.00	92.98	C
ATOM	11617	C	ALA	C1103	91.607	69.731	50.394	1.00	100.07	C
ATOM	11618	O	ALA	C1103	92.781	69.445	50.626	1.00	100.07	C
ATOM	11619	N	ALA	C1104	90.839	70.414	51.250	1.00	64.19	C
ATOM	11620	CA	ALA	C1104	91.331	70.926	52.539	1.00	64.19	C
ATOM	11621	CB	ALA	C1104	91.043	69.931	53.654	1.00	36.28	C
ATOM	11622	C	ALA	C1104	92.808	71.167	52.428	1.00	64.19	C
ATOM	11623	O	ALA	C1104	93.250	72.104	51.770	1.00	64.19	C
ATOM	11624	N	ALA	C1105	93.572	70.274	53.039	1.00	100.07	C
ATOM	11625	CA	ALA	C1105	95.025	70.361	52.999	1.00	100.07	C
ATOM	11626	CB	ALA	C1105	95.635	69.269	53.870	1.00	80.10	C
ATOM	11627	C	ALA	C1105	95.528	70.242	51.577	1.00	100.07	C
ATOM	11628	O	ALA	C1105	95.880	69.155	51.134	1.00	100.07	C
ATOM	11629	N	ALA	C1106	95.536	71.374	50.878	1.00	72.55	C
ATOM	11630	CA	ALA	C1106	95.986	71.473	49.492	1.00	72.55	C
ATOM	11631	CB	ALA	C1106	96.904	72.628	49.359	1.00	18.54	C
ATOM	11632	C	ALA	C1106	96.654	70.220	48.956	1.00	72.55	C
ATOM	11633	O	ALA	C1106	97.873	70.184	48.744	1.00	72.55	C
ATOM	11634	N	ALA	C1107	95.836	69.190	48.746	1.00	100.07	C
ATOM	11635	CA	ALA	C1107	96.308	67.912	48.232	1.00	100.07	C
ATOM	11636	CB	ALA	C1107	96.144	66.813	49.301	1.00	19.57	C
ATOM	11637	C	ALA	C1107	95.565	67.530	46.948	1.00	100.07	C
ATOM	11638	O	ALA	C1107	95.438	68.338	46.026	1.00	100.07	C

ATOM	11723	C	ALA	D	11	93.806	79.293	38.842	1.00	40.99	D
ATOM	11724	O	ALA	D	11	94.491	79.615	39.820	1.00	40.99	D
ATOM	11725	N	ALA	D	12	94.247	79.380	37.594	1.00	56.28	D
ATOM	11726	CA	ALA	D	12	95.584	79.855	37.293	1.00	56.28	D
ATOM	11727	CB	ALA	D	12	96.607	79.036	38.049	1.00	100.07	D
ATOM	11728	C	ALA	D	12	95.794	79.708	35.804	1.00	56.28	D
ATOM	11729	O	ALA	D	12	94.852	79.385	35.086	1.00	56.28	D
ATOM	11730	N	ALA	D	13	97.026	79.935	35.344	1.00	84.89	D
ATOM	11731	CA	ALA	D	13	97.355	79.831	33.922	1.00	84.89	D
ATOM	11732	CB	ALA	D	13	98.469	80.804	33.568	1.00	17.96	D
ATOM	11733	C	ALA	D	13	97.749	78.414	33.514	1.00	84.89	D
ATOM	11734	O	ALA	D	13	98.235	77.625	34.329	1.00	84.89	D
ATOM	11735	N	ALA	D	14	97.532	78.102	32.239	1.00	100.07	D
ATOM	11736	CA	ALA	D	14	97.839	76.781	31.709	1.00	100.07	D
ATOM	11737	CB	ALA	D	14	96.572	75.941	31.673	1.00	45.15	D
ATOM	11738	C	ALA	D	14	98.447	76.861	30.314	1.00	100.07	D
ATOM	11739	O	ALA	D	14	97.862	77.458	29.408	1.00	100.07	D
ATOM	11740	N	ALA	D	15	99.617	76.250	30.141	1.00	72.38	D
ATOM	11741	CA	ALA	D	15	100.295	76.257	28.847	1.00	72.38	D
ATOM	11742	CB	ALA	D	15	101.630	76.978	28.956	1.00	83.66	D
ATOM	11743	C	ALA	D	15	100.513	74.842	28.334	1.00	72.38	D
ATOM	11744	O	ALA	D	15	100.406	73.873	29.098	1.00	72.38	D
ATOM	11745	N	ALA	D	16	100.829	74.750	27.039	1.00	60.85	D
ATOM	11746	CA	ALA	D	16	101.069	73.485	26.346	1.00	60.85	D
ATOM	11747	CB	ALA	D	16	102.241	73.622	25.412	1.00	31.86	D
ATOM	11748	C	ALA	D	16	101.304	72.332	27.305	1.00	60.85	D
ATOM	11749	O	ALA	D	16	100.345	71.748	27.805	1.00	60.85	D
ATOM	11750	N	ALA	D	17	102.574	72.016	27.556	1.00	100.07	D
ATOM	11751	CA	ALA	D	17	102.967	70.929	28.460	1.00	100.07	D
ATOM	11752	CB	ALA	D	17	103.967	71.451	29.496	1.00	100.07	D
ATOM	11753	C	ALA	D	17	101.781	70.253	29.162	1.00	100.07	D
ATOM	11754	O	ALA	D	17	101.555	69.051	28.995	1.00	100.07	D
ATOM	11755	N	ALA	D	18	101.030	71.023	29.948	1.00	99.82	D
ATOM	11756	CA	ALA	D	18	99.863	70.484	30.636	1.00	99.82	D
ATOM	11757	CB	ALA	D	18	99.522	71.328	31.869	1.00	52.21	D
ATOM	11758	C	ALA	D	18	98.690	70.479	29.664	1.00	99.82	D
ATOM	11759	O	ALA	D	18	98.154	69.423	29.342	1.00	99.82	D
ATOM	11760	N	ALA	D	19	98.311	71.662	29.185	1.00	36.78	D
ATOM	11761	CA	ALA	D	19	97.192	71.792	28.253	1.00	36.78	D
ATOM	11762	CB	ALA	D	19	97.191	73.185	27.605	1.00	30.74	D
ATOM	11763	C	ALA	D	19	97.221	70.718	27.171	1.00	36.78	D
ATOM	11764	O	ALA	D	19	96.193	70.415	26.558	1.00	36.78	D
ATOM	11765	N	ALA	D	20	98.400	70.154	26.930	1.00	75.15	D
ATOM	11766	CA	ALA	D	20	98.554	69.114	25.924	1.00	75.15	D
ATOM	11767	CB	ALA	D	20	99.997	69.072	25.426	1.00	100.07	D
ATOM	11768	C	ALA	D	20	98.166	67.783	26.553	1.00	75.15	D
ATOM	11769	O	ALA	D	20	97.465	66.972	25.946	1.00	75.15	D
ATOM	11770	N	ALA	D	21	98.630	67.561	27.775	1.00	100.03	D
ATOM	11771	CA	ALA	D	21	98.303	66.336	28.483	1.00	100.03	D
ATOM	11772	CB	ALA	D	21	98.746	66.434	29.943	1.00	73.74	D
ATOM	11773	C	ALA	D	21	96.793	66.194	28.405	1.00	100.03	D
ATOM	11774	O	ALA	D	21	96.274	65.100	28.181	1.00	100.03	D
ATOM	11775	N	ALA	D	22	96.108	67.328	28.572	1.00	73.95	D
ATOM	11776	CA	ALA	D	22	94.648	67.406	28.546	1.00	73.95	D
ATOM	11777	CB	ALA	D	22	94.205	68.848	28.289	1.00	68.74	D
ATOM	11778	C	ALA	D	22	94.046	66.477	27.504	1.00	73.95	D
ATOM	11779	O	ALA	D	22	93.173	65.667	27.893	1.00	73.95	D
ATOM	11780	OT	ALA	D	22	94.453	66.569	26.322	1.00	68.74	D
ATOM	11781	CB	ALA	E	96	83.151	63.580	30.479	1.00	100.07	E
ATOM	11782	C	ALA	E	96	85.004	62.930	28.936	1.00	78.93	E
ATOM	11783	O	ALA	E	96	85.578	62.500	29.939	1.00	78.93	E
ATOM	11784	N	ALA	E	96	82.645	62.583	28.266	1.00	78.93	E
ATOM	11785	CA	ALA	E	96	83.584	63.473	29.021	1.00	78.93	E
ATOM	11786	N	ALA	E	97	85.562	62.969	27.727	1.00	77.94	E
ATOM	11787	CA	ALA	E	97	86.905	62.466	27.469	1.00	77.94	E
ATOM	11788	CB	ALA	E	97	86.870	61.499	26.311	1.00	12.82	E
ATOM	11789	C	ALA	E	97	87.937	63.544	27.185	1.00	77.94	E
ATOM	11790	O	ALA	E	97	87.603	64.720	26.999	1.00	77.94	E
ATOM	11791	N	ALA	E	98	89.197	63.106	27.142	1.00	100.07	E
ATOM	11792	CA	ALA	E	98	90.343	63.971	26.868	1.00	100.07	E
ATOM	11793	CB	ALA	E	98	91.590	63.119	26.572	1.00	66.96	E
ATOM	11794	C	ALA	E	98	90.028	64.860	25.676	1.00	100.07	E
ATOM	11795	O	ALA	E	98	90.056	64.403	24.535	1.00	100.07	E
ATOM	11796	N	ALA	E	99	89.727	66.124	25.954	1.00	53.81	E
ATOM	11797	CA	ALA	E	99	89.397	67.102	24.921	1.00	53.81	E
ATOM	11798	CB	ALA	E	99	89.463	68.510	25.516	1.00	100.07	E
ATOM	11799	C	ALA	E	99	90.273	67.024	23.665	1.00	53.81	E
ATOM	11800	O	ALA	E	99	90.933	66.017	23.399	1.00	53.81	E
ATOM	11801	N	ALA	E	100	90.283	68.104	22.893	1.00	34.66	E
ATOM	11802	CA	ALA	E	100	91.068	68.133	21.665	1.00	34.66	E
ATOM	11803	CB	ALA	E	100	90.251	68.742	20.538	1.00	100.07	E
ATOM	11804	C	ALA	E	100	92.387	68.872	21.811	1.00	34.66	E
ATOM	11805	O	ALA	E	100	92.453	69.941	22.417	1.00	34.66	E
ATOM	11806	N	ALA	E	101	93.434	68.294	21.242	1.00	97.06	E

ATOM	11807	CA	ALA	E	101	94.749	68.893	21.318	1.00	97.06	E
ATOM	11808	CB	ALA	E	101	95.797	67.807	21.565	1.00	9.06	E
ATOM	11809	C	ALA	E	101	95.077	69.663	20.049	1.00	97.06	E
ATOM	11810	O	ALA	E	101	96.031	69.326	19.357	1.00	97.06	E
ATOM	11811	N	ALA	E	102	94.296	70.696	19.742	1.00	63.22	E
ATOM	11812	CA	ALA	E	102	94.552	71.491	18.535	1.00	63.22	E
ATOM	11813	CB	ALA	E	102	93.470	72.562	18.359	1.00	67.61	E
ATOM	11814	C	ALA	E	102	95.938	72.146	18.599	1.00	63.22	E
ATOM	11815	O	ALA	E	102	96.062	73.336	18.908	1.00	63.22	E
ATOM	11816	N	ALA	E	103	96.969	71.357	18.280	1.00	52.63	E
ATOM	11817	CA	ALA	E	103	98.375	71.784	18.313	1.00	52.63	E
ATOM	11818	CB	ALA	E	103	99.271	70.635	17.830	1.00	26.71	E
ATOM	11819	C	ALA	E	103	98.708	73.059	17.542	1.00	52.63	E
ATOM	11820	O	ALA	E	103	99.853	73.511	17.552	1.00	52.63	E
ATOM	11821	N	ALA	E	104	97.709	73.637	16.884	1.00	67.52	E
ATOM	11822	CA	ALA	E	104	97.902	74.853	16.107	1.00	67.52	E
ATOM	11823	CB	ALA	E	104	97.886	76.081	17.035	1.00	53.02	E
ATOM	11824	C	ALA	E	104	99.229	74.766	15.356	1.00	67.52	E
ATOM	11825	O	ALA	E	104	99.761	73.677	15.145	1.00	67.52	E
ATOM	11826	N	ALA	E	105	99.748	75.919	14.948	1.00	72.23	E
ATOM	11827	CA	ALA	E	105	101.018	76.025	14.236	1.00	72.23	E
ATOM	11828	CB	ALA	E	105	100.811	75.897	12.737	1.00	77.95	E
ATOM	11829	C	ALA	E	105	101.494	77.415	14.579	1.00	72.23	E
ATOM	11830	O	ALA	E	105	100.733	78.193	15.135	1.00	72.23	E
ATOM	11831	N	ALA	E	106	102.741	77.723	14.248	1.00	85.60	E
ATOM	11832	CA	ALA	E	106	103.344	79.027	14.532	1.00	85.60	E
ATOM	11833	CB	ALA	E	106	104.282	79.406	13.393	1.00	88.68	E
ATOM	11834	C	ALA	E	106	102.370	80.183	14.808	1.00	85.60	E
ATOM	11835	O	ALA	E	106	102.324	81.157	14.061	1.00	85.60	E
ATOM	11836	N	ALA	E	107	101.618	80.085	15.898	1.00	59.61	E
ATOM	11837	CA	ALA	E	107	100.650	81.111	16.267	1.00	59.61	E
ATOM	11838	CB	ALA	E	107	99.245	80.633	15.968	1.00	73.41	E
ATOM	11839	C	ALA	E	107	100.787	81.395	17.749	1.00	59.61	E
ATOM	11840	O	ALA	E	107	101.642	80.809	18.416	1.00	59.61	E
ATOM	11841	N	ALA	E	108	99.932	82.277	18.262	1.00	79.26	E
ATOM	11842	CA	ALA	E	108	99.967	82.650	19.674	1.00	79.26	E
ATOM	11843	CB	ALA	E	108	101.386	83.032	20.068	1.00	100.07	E
ATOM	11844	C	ALA	E	108	99.025	83.806	19.987	1.00	79.26	E
ATOM	11845	O	ALA	E	108	99.461	84.933	20.224	1.00	79.26	E
ATOM	11846	N	ALA	E	109	97.730	83.539	19.987	1.00	77.88	E
ATOM	11847	CA	ALA	E	109	96.782	84.596	20.282	1.00	77.88	E
ATOM	11848	CB	ALA	E	109	95.375	84.135	19.970	1.00	100.07	E
ATOM	11849	C	ALA	E	109	96.879	85.018	21.735	1.00	77.88	E
ATOM	11850	O	ALA	E	109	97.890	84.786	22.403	1.00	77.88	E
ATOM	11851	N	ALA	E	110	95.810	85.638	22.219	1.00	76.08	E
ATOM	11852	CA	ALA	E	110	95.754	86.098	23.592	1.00	76.08	E
ATOM	11853	CB	ALA	E	110	96.133	87.566	23.664	1.00	40.92	E
ATOM	11854	C	ALA	E	110	94.354	85.888	24.136	1.00	76.08	E
ATOM	11855	O	ALA	E	110	93.406	86.566	23.717	1.00	76.08	E
ATOM	11856	N	ALA	E	111	94.238	84.935	25.059	1.00	100.07	E
ATOM	11857	CA	ALA	E	111	92.967	84.609	25.689	1.00	100.07	E
ATOM	11858	CB	ALA	E	111	93.132	83.433	26.625	1.00	5.07	E
ATOM	11859	C	ALA	E	111	92.490	85.815	26.467	1.00	100.07	E
ATOM	11860	O	ALA	E	111	92.402	85.774	27.695	1.00	100.07	E
ATOM	11861	N	ALA	E	112	92.187	86.892	25.750	1.00	100.07	E
ATOM	11862	CA	ALA	E	112	91.729	88.116	26.386	1.00	100.07	E
ATOM	11863	CB	ALA	E	112	90.530	87.801	27.315	1.00	44.03	E
ATOM	11864	C	ALA	E	112	92.898	88.726	27.179	1.00	100.07	E
ATOM	11865	O	ALA	E	112	92.891	89.919	27.513	1.00	100.07	E
ATOM	11866	N	ALA	E	113	93.912	87.900	27.446	1.00	33.55	E
ATOM	11867	CA	ALA	E	113	95.087	88.319	28.205	1.00	33.55	E
ATOM	11868	CB	ALA	E	113	95.984	87.098	28.498	1.00	18.80	E
ATOM	11869	C	ALA	E	113	95.870	89.415	27.482	1.00	33.55	E
ATOM	11870	O	ALA	E	113	96.768	90.030	28.061	1.00	33.55	E
ATOM	11871	N	ALA	E	114	95.507	89.656	26.222	1.00	67.18	E
ATOM	11872	CA	ALA	E	114	96.143	90.694	25.405	1.00	67.18	E
ATOM	11873	CB	ALA	E	114	95.683	90.600	23.959	1.00	100.07	E
ATOM	11874	C	ALA	E	114	95.769	92.055	25.970	1.00	67.18	E
ATOM	11875	O	ALA	E	114	94.991	92.806	25.363	1.00	67.18	E
ATOM	11876	N	ALA	E	115	96.337	92.349	27.140	1.00	83.09	E
ATOM	11877	CA	ALA	E	115	96.109	93.597	27.863	1.00	83.09	E
ATOM	11878	CB	ALA	E	115	94.676	93.634	28.398	1.00	100.07	E
ATOM	11879	C	ALA	E	115	97.097	93.646	29.020	1.00	83.09	E
ATOM	11880	O	ALA	E	115	97.790	94.639	29.226	1.00	83.09	E
ATOM	11881	N	ALA	E	116	97.132	92.554	29.775	1.00	48.97	E
ATOM	11882	CA	ALA	E	116	98.027	92.413	30.911	1.00	48.97	E
ATOM	11883	CB	ALA	E	116	97.382	91.539	31.991	1.00	27.73	E
ATOM	11884	C	ALA	E	116	99.278	91.744	30.360	1.00	48.97	E
ATOM	11885	O	ALA	E	116	100.392	92.022	30.801	1.00	48.97	E
ATOM	11886	N	ALA	E	117	99.084	90.862	29.382	1.00	100.07	E
ATOM	11887	CA	ALA	E	117	100.204	90.168	28.754	1.00	100.07	E
ATOM	11888	CB	ALA	E	117	99.713	89.277	27.613	1.00	72.40	E
ATOM	11889	C	ALA	E	117	101.142	91.235	28.225	1.00	100.07	E
ATOM	11890	O	ALA	E	117	102.326	90.990	28.006	1.00	100.07	E

ATOM	11891	N	ALA E 118	100.594	92.427	28.032	1.00	68.38	E
ATOM	11892	CA	ALA E 118	101.361	93.552	27.540	1.00	68.38	E
ATOM	11893	CB	ALA E 118	100.576	94.263	26.447	1.00	100.07	E
ATOM	11894	C	ALA E 118	101.675	94.517	28.685	1.00	68.38	E
ATOM	11895	O	ALA E 118	102.702	95.201	28.680	1.00	68.38	E
ATOM	11896	N	ALA E 119	100.783	94.560	29.670	1.00	62.26	E
ATOM	11897	CA	ALA E 119	100.939	95.444	30.822	1.00	62.26	E
ATOM	11898	CB	ALA E 119	99.949	95.051	31.922	1.00	68.19	E
ATOM	11899	C	ALA E 119	102.354	95.417	31.370	1.00	62.26	E
ATOM	11900	O	ALA E 119	102.840	96.413	31.899	1.00	62.26	E
ATOM	11901	N	ALA E 120	103.016	94.276	31.222	1.00	78.26	E
ATOM	11902	CA	ALA E 120	104.367	94.114	31.732	1.00	78.26	E
ATOM	11903	CB	ALA E 120	104.514	92.699	32.341	1.00	20.11	E
ATOM	11904	C	ALA E 120	105.500	94.390	30.723	1.00	78.26	E
ATOM	11905	O	ALA E 120	106.483	93.644	30.668	1.00	78.26	E
ATOM	11906	N	ALA E 121	105.366	95.460	29.934	1.00	56.21	E
ATOM	11907	CA	ALA E 121	106.393	95.845	28.950	1.00	56.21	E
ATOM	11908	CB	ALA E 121	106.759	94.657	28.047	1.00	12.10	E
ATOM	11909	C	ALA E 121	105.987	97.043	28.090	1.00	56.21	E
ATOM	11910	O	ALA E 121	106.373	97.139	26.928	1.00	56.21	E
ATOM	11911	N	ALA E 122	105.205	97.946	28.672	1.00	92.97	E
ATOM	11912	CA	ALA E 122	104.751	99.158	27.994	1.00	92.97	E
ATOM	11913	CB	ALA E 122	105.766	100.268	28.215	1.00	6.62	E
ATOM	11914	C	ALA E 122	104.456	99.024	26.497	1.00	92.97	E
ATOM	11915	O	ALA E 122	105.324	99.280	25.662	1.00	92.97	E
ATOM	11916	N	ALA E 123	103.225	98.645	26.165	1.00	99.76	E
ATOM	11917	CA	ALA E 123	102.811	98.493	24.772	1.00	99.76	E
ATOM	11918	CB	ALA E 123	102.896	97.023	24.357	1.00	100.07	E
ATOM	11919	C	ALA E 123	101.388	99.030	24.563	1.00	99.76	E
ATOM	11920	O	ALA E 123	101.126	100.199	24.844	1.00	99.76	E
ATOM	11921	N	ALA E 124	100.478	98.175	24.087	1.00	52.94	E
ATOM	11922	CA	ALA E 124	99.084	98.555	23.824	1.00	52.94	E
ATOM	11923	CB	ALA E 124	98.428	99.076	25.091	1.00	91.04	E
ATOM	11924	C	ALA E 124	99.108	99.635	22.761	1.00	52.94	E
ATOM	11925	O	ALA E 124	99.839	100.614	22.897	1.00	52.94	E
ATOM	11926	N	ALA E 125	98.305	99.476	21.713	1.00	100.07	E
ATOM	11927	CA	ALA E 125	98.305	100.432	20.603	1.00	100.07	E
ATOM	11928	CB	ALA E 125	98.183	101.866	21.107	1.00	62.84	E
ATOM	11929	C	ALA E 125	99.667	100.198	19.952	1.00	100.07	E
ATOM	11930	O	ALA E 125	99.800	100.199	18.727	1.00	100.07	E
ATOM	11931	N	ALA E 126	100.673	99.995	20.800	1.00	48.23	E
ATOM	11932	CA	ALA E 126	102.023	99.682	20.367	1.00	48.23	E
ATOM	11933	CB	ALA E 126	103.009	99.870	21.516	1.00	53.31	E
ATOM	11934	C	ALA E 126	101.887	98.204	20.022	1.00	48.23	E
ATOM	11935	O	ALA E 126	102.121	97.802	18.888	1.00	48.23	E
ATOM	11936	N	ALA E 127	101.481	97.403	21.009	1.00	42.94	E
ATOM	11937	CA	ALA E 127	101.272	95.969	20.807	1.00	42.94	E
ATOM	11938	CB	ALA E 127	100.888	95.266	22.138	1.00	27.39	E
ATOM	11939	C	ALA E 127	100.154	95.815	19.779	1.00	42.94	E
ATOM	11940	O	ALA E 127	99.945	94.735	19.245	1.00	42.94	E
ATOM	11941	N	ALA E 128	99.427	96.900	19.517	1.00	99.91	E
ATOM	11942	CA	ALA E 128	98.366	96.866	18.514	1.00	99.91	E
ATOM	11943	CB	ALA E 128	97.690	98.220	18.397	1.00	100.07	E
ATOM	11944	C	ALA E 128	99.110	96.540	17.233	1.00	99.91	E
ATOM	11945	O	ALA E 128	98.584	95.889	16.327	1.00	99.91	E
ATOM	11946	N	ALA E 129	100.347	97.022	17.169	1.00	61.39	E
ATOM	11947	CA	ALA E 129	101.213	96.739	16.043	1.00	61.39	E
ATOM	11948	CB	ALA E 129	102.421	97.667	16.049	1.00	87.87	E
ATOM	11949	C	ALA E 129	101.627	95.304	16.353	1.00	61.39	E
ATOM	11950	O	ALA E 129	100.848	94.560	16.940	1.00	61.39	E
ATOM	11951	N	ALA E 130	102.843	94.915	15.997	1.00	85.96	E
ATOM	11952	CA	ALA E 130	103.290	93.549	16.252	1.00	85.96	E
ATOM	11953	CB	ALA E 130	103.762	93.398	17.705	1.00	36.23	E
ATOM	11954	C	ALA E 130	102.161	92.563	15.961	1.00	85.96	E
ATOM	11955	O	ALA E 130	102.185	91.423	16.430	1.00	85.96	E
ATOM	11956	N	ALA E 131	101.172	93.019	15.189	1.00	100.07	E
ATOM	11957	CA	ALA E 131	100.021	92.202	14.807	1.00	100.07	E
ATOM	11958	CB	ALA E 131	98.708	92.893	15.212	1.00	81.68	E
ATOM	11959	C	ALA E 131	100.055	91.970	13.297	1.00	100.07	E
ATOM	11960	O	ALA E 131	99.037	92.079	12.607	1.00	100.07	E
ATOM	11961	N	ALA E 132	101.248	91.669	12.794	1.00	94.68	E
ATOM	11962	CA	ALA E 132	101.441	91.396	11.383	1.00	94.68	E
ATOM	11963	CB	ALA E 132	102.918	91.571	11.012	1.00	38.26	E
ATOM	11964	C	ALA E 132	100.983	89.956	11.139	1.00	94.68	E
ATOM	11965	O	ALA E 132	99.954	89.798	10.458	1.00	94.68	E
ATOM	11966	OT	ALA E 132	101.624	89.004	11.646	1.00	38.26	E
ATOM	11967	CB	ALA F 462	101.935	86.175	18.086	1.00	100.07	F
ATOM	11968	C	ALA F 462	104.317	85.854	18.755	1.00	66.01	F
ATOM	11969	O	ALA F 462	104.206	85.675	19.962	1.00	66.01	F
ATOM	11970	N	ALA F 462	103.736	86.958	16.581	1.00	66.01	F
ATOM	11971	CA	ALA F 462	103.342	86.757	18.011	1.00	66.01	F
ATOM	11972	N	ALA F 463	105.267	85.278	18.030	1.00	79.79	F
ATOM	11973	CA	ALA F 463	106.264	84.404	18.638	1.00	79.79	F
ATOM	11974	CB	ALA F 463	107.036	83.652	17.554	1.00	100.07	F

ATOM	11975	C	ALA	F	463	107.220	85.260	19.458	1.00	79.79	F
ATOM	11976	O	ALA	F	463	107.693	84.852	20.519	1.00	79.79	F
ATOM	11977	N	ALA	F	464	107.509	86.449	18.940	1.00	51.07	F
ATOM	11978	CA	ALA	F	464	108.398	87.384	19.613	1.00	51.07	F
ATOM	11979	CB	ALA	F	464	108.716	88.548	18.697	1.00	100.07	F
ATOM	11980	C	ALA	F	464	107.662	87.869	20.842	1.00	51.07	F
ATOM	11981	O	ALA	F	464	108.170	87.781	21.962	1.00	51.07	F
ATOM	11982	N	ALA	F	465	106.454	88.378	20.614	1.00	100.07	F
ATOM	11983	CA	ALA	F	465	105.611	88.853	21.693	1.00	100.07	F
ATOM	11984	CB	ALA	F	465	104.187	88.961	21.219	1.00	35.10	F
ATOM	11985	C	ALA	F	465	105.737	87.777	22.756	1.00	100.07	F
ATOM	11986	O	ALA	F	465	105.584	88.035	23.953	1.00	100.07	F
ATOM	11987	N	ALA	F	466	106.031	86.564	22.288	1.00	63.24	F
ATOM	11988	CA	ALA	F	466	106.215	85.412	23.159	1.00	63.24	F
ATOM	11989	CB	ALA	F	466	105.942	84.090	22.385	1.00	14.05	F
ATOM	11990	C	ALA	F	466	107.650	85.446	23.655	1.00	63.24	F
ATOM	11991	O	ALA	F	466	107.916	85.791	24.808	1.00	63.24	F
ATOM	11992	N	ALA	F	467	108.567	85.099	22.759	1.00	99.18	F
ATOM	11993	CA	ALA	F	467	109.988	85.068	23.070	1.00	99.18	F
ATOM	11994	CB	ALA	F	467	110.804	85.146	21.784	1.00	35.14	F
ATOM	11995	C	ALA	F	467	110.342	86.218	23.993	1.00	99.18	F
ATOM	11996	O	ALA	F	467	110.957	86.021	25.036	1.00	99.18	F
ATOM	11997	N	ALA	F	468	109.935	87.420	23.610	1.00	62.05	F
ATOM	11998	CA	ALA	F	468	110.217	88.592	24.414	1.00	62.05	F
ATOM	11999	CB	ALA	F	468	109.595	89.838	23.757	1.00	54.99	F
ATOM	12000	C	ALA	F	468	109.672	88.383	25.837	1.00	62.05	F
ATOM	12001	O	ALA	F	468	110.357	88.669	26.833	1.00	62.05	F
ATOM	12002	N	ALA	F	469	108.452	87.860	25.932	1.00	51.19	F
ATOM	12003	CA	ALA	F	469	107.822	87.628	27.230	1.00	51.19	F
ATOM	12004	CB	ALA	F	469	106.313	87.377	27.046	1.00	14.58	F
ATOM	12005	C	ALA	F	469	108.490	86.466	27.973	1.00	51.19	F
ATOM	12006	O	ALA	F	469	108.425	86.365	29.196	1.00	51.19	F
ATOM	12007	N	ALA	F	470	109.145	85.590	27.231	1.00	74.88	F
ATOM	12008	CA	ALA	F	470	109.827	84.472	27.860	1.00	74.88	F
ATOM	12009	CB	ALA	F	470	109.917	83.297	26.881	1.00	88.67	F
ATOM	12010	C	ALA	F	470	111.229	84.938	28.265	1.00	74.88	F
ATOM	12011	O	ALA	F	470	111.863	84.371	29.161	1.00	74.88	F
ATOM	12012	N	ALA	F	471	111.697	85.988	27.596	1.00	100.07	F
ATOM	12013	CA	ALA	F	471	113.027	86.540	27.840	1.00	100.07	F
ATOM	12014	CB	ALA	F	471	113					

ATOM	12059	CB	ALA	F	480	115.445	94.405	42.382	1.00	100.07	F
ATOM	12060	C	ALA	F	480	114.032	96.271	41.542	1.00	71.00	F
ATOM	12061	O	ALA	F	480	114.008	97.349	42.137	1.00	71.00	F
ATOM	12062	N	ALA	F	481	114.062	96.157	40.219	1.00	77.09	F
ATOM	12063	CA	ALA	F	481	114.051	97.319	39.348	1.00	77.09	F
ATOM	12064	CB	ALA	F	481	113.916	96.883	37.891	1.00	38.68	F
ATOM	12065	C	ALA	F	481	112.860	98.168	39.745	1.00	77.09	F
ATOM	12066	O	ALA	F	481	112.998	99.237	40.340	1.00	77.09	F
ATOM	12067	N	ALA	F	482	111.679	97.676	39.407	1.00	95.03	F
ATOM	12068	CA	ALA	F	482	110.464	98.383	39.739	1.00	95.03	F
ATOM	12069	CB	ALA	F	482	109.252	97.496	39.459	1.00	67.50	F
ATOM	12070	C	ALA	F	482	110.536	98.758	41.218	1.00	95.03	F
ATOM	12071	O	ALA	F	482	110.268	99.905	41.582	1.00	95.03	F
ATOM	12072	N	ALA	F	483	110.923	97.793	42.057	1.00	95.33	F
ATOM	12073	CA	ALA	F	483	111.034	98.008	43.502	1.00	95.33	F
ATOM	12074	CB	ALA	F	483	112.016	97.022	44.110	1.00	100.07	F
ATOM	12075	C	ALA	F	483	111.502	99.427	43.746	1.00	95.33	F
ATOM	12076	O	ALA	F	483	110.882	100.177	44.500	1.00	95.33	F
ATOM	12077	N	ALA	F	484	112.601	99.788	43.092	1.00	100.07	F
ATOM	12078	CA	ALA	F	484	113.149	101.133	43.197	1.00	100.07	F
ATOM	12079	CB	ALA	F	484	114.645	101.127	42.851	1.00	100.07	F
ATOM	12080	C	ALA	F	484	112.369	102.014	42.217	1.00	100.07	F
ATOM	12081	O	ALA	F	484	112.854	102.363	41.136	1.00	100.07	F
ATOM	12082	N	ALA	F	485	111.141	102.348	42.601	1.00	100.07	F
ATOM	12083	CA	ALA	F	485	110.276	103.178	41.778	1.00	100.07	F
ATOM	12084	CB	ALA	F	485	108.819	102.865	42.090	1.00	29.66	F
ATOM	12085	C	ALA	F	485	110.576	104.655	42.036	1.00	100.07	F
ATOM	12086	O	ALA	F	485	110.049	105.531	41.345	1.00	100.07	F
ATOM	12087	N	ALA	F	486	111.432	104.908	43.032	1.00	100.07	F
ATOM	12088	CA	ALA	F	486	111.859	106.256	43.445	1.00	100.07	F
ATOM	12089	CB	ALA	F	486	113.081	106.731	42.593	1.00	11.16	F
ATOM	12090	C	ALA	F	486	110.746	107.304	43.401	1.00	100.07	F
ATOM	12091	O	ALA	F	486	109.569	106.985	43.595	1.00	100.07	F
ATOM	12092	N	ALA	F	487	111.131	108.556	43.157	1.00	100.07	F
ATOM	12093	CA	ALA	F	487	110.181	109.661	43.089	1.00	100.07	F
ATOM	12094	CB	ALA	F	487	110.515	110.708	44.135	1.00	10.05	F
ATOM	12095	C	ALA	F	487	110.168	110.303	41.711	1.00	100.07	F
ATOM	12096	O	ALA	F	487	111.107	110.147	40.924	1.00	100.07	F
ATOM	12097	N	ALA	F	488	109.089	111.031	41.440	1.00	97.36	F
ATOM	12098	CA	ALA	F	488	108.885	111.722	40.172	1.00	97.36	F
ATOM	12099	CB	ALA	F	488	109.311	110.832	38.994	1.00	78.09	F
ATOM	12100	C	ALA	F	488	107.403	112.063	40.065	1.00	97.36	F
ATOM	12101	O	ALA	F	488	106.673	112.024	41.058	1.00	97.36	F
ATOM	12102	N	ALA	F	489	106.961	112.393	38.857	1.00	100.07	F
ATOM	12103	CA	ALA	F	489	105.565	112.739	38.624	1.00	100.07	F
ATOM	12104	CB	ALA	F	489	105.379	113.231	37.182	1.00	95.80	F
ATOM	12105	C	ALA	F	489	104.660	111.540	38.897	1.00	100.07	F
ATOM	12106	O	ALA	F	489	104.450	111.156	40.051	1.00	100.07	F
ATOM	12107	N	ALA	F	490	104.132	110.956	37.824	1.00	99.59	F
ATOM	12108	CA	ALA	F	490	103.245	109.804	37.921	1.00	99.59	F
ATOM	12109	CB	ALA	F	490	102.754	109.404	36.533	1.00	77.92	F
ATOM	12110	C	ALA	F	490	103.924	108.618	38.594	1.00	99.59	F
ATOM	12111	O	ALA	F	490	105.022	108.203	38.206	1.00	99.59	F
ATOM	12112	N	ALA	F	491	103.256	108.079	39.606	1.00	63.35	F
ATOM	12113	CA	ALA	F	491	103.771	106.941	40.344	1.00	63.35	F
ATOM	12114	CB	ALA	F	491	102.876	106.653	41.520	1.00	33.73	F
ATOM	12115	C	ALA	F	491	103.838	105.730	39.429	1.00	63.35	F
ATOM	12116	O	ALA	F	491	104.916	105.190	39.189	1.00	63.35	F
ATOM	12117	N	ALA	F	492	102.681	105.319	38.915	1.00	80.27	F
ATOM	12118	CA	ALA	F	492	102.594	104.167	38.024	1.00	80.27	F
ATOM	12119	CB	ALA	F	492	102.730	104.622	36.575	1.00	21.41	F
ATOM	12120	C	ALA	F	492	103.699	103.175	38.382	1.00	80.27	F
ATOM	12121	O	ALA	F	492	103.795	102.743	39.532	1.00	80.27	F
ATOM	12122	N	ALA	F	493	104.535	102.843	37.399	1.00	100.07	F
ATOM	12123	CA	ALA	F	493	105.661	101.913	37.562	1.00	100.07	F
ATOM	12124	CB	ALA	F	493	106.925	102.683	37.933	1.00	100.07	F
ATOM	12125	C	ALA	F	493	105.408	100.812	38.583	1.00	100.07	F
ATOM	12126	O	ALA	F	493	105.175	99.660	38.215	1.00	100.07	F
ATOM	12127	N	ALA	F	494	105.481	101.167	39.864	1.00	72.51	F
ATOM	12128	CA	ALA	F	494	105.235	100.213	40.935	1.00	72.51	F
ATOM	12129	CB	ALA	F	494	105.018	100.952	42.260	1.00	52.38	F
ATOM	12130	C	ALA	F	494	103.982	99.439	40.544	1.00	72.51	F
ATOM	12131	O	ALA	F	494	103.901	98.227	40.734	1.00	72.51	F
ATOM	12132	N	ALA	F	495	103.020	100.162	39.972	1.00	100.07	F
ATOM	12133	CA	ALA	F	495	101.753	99.588	39.526	1.00	100.07	F
ATOM	12134	CB	ALA	F	495	101.020	100.581	38.631	1.00	100.07	F
ATOM	12135	C	ALA	F	495	101.969	98.271	38.787	1.00	100.07	F
ATOM	12136	O	ALA	F	495	101.095	97.404	38.769	1.00	100.07	F
ATOM	12137	N	ALA	F	496	103.128	98.124	38.162	1.00	57.26	F
ATOM	12138	CA	ALA	F	496	103.420	96.888	37.465	1.00	57.26	F
ATOM	12139	CB	ALA	F	496	104.776	96.976	36.759	1.00	29.06	F
ATOM	12140	C	ALA	F	496	103.449	95.817	38.552	1.00	57.26	F
ATOM	12141	O	ALA	F	496	102.747	94.811	38.471	1.00	57.26	F
ATOM	12142	N	ALA	F	497	104.240	96.067	39.589	1.00	61.78	F

ATOM	12143	CA	ALA	F	497	104.390	95.130	40.698	1.00	61.78	F
ATOM	12144	CB	ALA	F	497	104.901	95.870	41.949	1.00	61.71	F
ATOM	12145	C	ALA	F	497	103.123	94.339	41.030	1.00	61.78	F
ATOM	12146	O	ALA	F	497	103.196	93.159	41.371	1.00	61.78	F
ATOM	12147	N	ALA	F	498	101.965	94.980	40.934	1.00	99.94	F
ATOM	12148	CA	ALA	F	498	100.718	94.289	41.232	1.00	99.94	F
ATOM	12149	CB	ALA	F	498	99.528	95.205	40.978	1.00	100.07	F
ATOM	12150	C	ALA	F	498	100.632	93.046	40.357	1.00	99.94	F
ATOM	12151	O	ALA	F	498	100.442	91.936	40.862	1.00	99.94	F
ATOM	12152	N	ALA	F	499	100.780	93.237	39.046	1.00	100.07	F
ATOM	12153	CA	ALA	F	499	100.740	92.124	38.100	1.00	100.07	F
ATOM	12154	CB	ALA	F	499	100.733	92.655	36.651	1.00	24.68	F
ATOM	12155	C	ALA	F	499	101.964	91.233	38.340	1.00	100.07	F
ATOM	12156	O	ALA	F	499	101.839	90.017	38.524	1.00	100.07	F
ATOM	12157	N	ALA	F	500	103.141	91.859	38.363	1.00	82.45	F
ATOM	12158	CA	ALA	F	500	104.408	91.158	38.571	1.00	82.45	F
ATOM	12159	CB	ALA	F	500	105.574	92.167	38.544	1.00	19.29	F
ATOM	12160	C	ALA	F	500	104.445	90.339	39.865	1.00	82.45	F
ATOM	12161	O	ALA	F	500	104.820	89.168	39.852	1.00	82.45	F
ATOM	12162	N	ALA	F	501	104.061	90.959	40.977	1.00	82.14	F
ATOM	12163	CA	ALA	F	501	104.054	90.284	42.273	1.00	82.14	F
ATOM	12164	CB	ALA	F	501	103.426	91.181	43.321	1.00	18.50	F
ATOM	12165	C	ALA	F	501	103.280	88.975	42.180	1.00	82.14	F
ATOM	12166	O	ALA	F	501	103.835	87.891	42.368	1.00	82.14	F
ATOM	12167	N	ALA	F	502	101.988	89.087	41.896	1.00	91.70	F
ATOM	12168	CA	ALA	F	502	101.144	87.913	41.762	1.00	91.70	F
ATOM	12169	CB	ALA	F	502	99.784	88.312	41.206	1.00	100.07	F
ATOM	12170	C	ALA	F	502	101.858	86.986	40.797	1.00	91.70	F
ATOM	12171	O	ALA	F	502	101.969	85.782	41.025	1.00	91.70	F
ATOM	12172	N	ALA	F	503	102.355	87.571	39.716	1.00	98.19	F
ATOM	12173	CA	ALA	F	503	103.064	86.805	38.711	1.00	98.19	F
ATOM	12174	CB	ALA	F	503	103.558	87.726	37.604	1.00	14.32	F
ATOM	12175	C	ALA	F	503	104.230	86.080	39.369	1.00	98.19	F
ATOM	12176	O	ALA	F	503	104.156	84.871	39.611	1.00	98.19	F
ATOM	12177	N	ALA	F	504	105.295	86.824	39.673	1.00	100.07	F
ATOM	12178	CA	ALA	F	504	106.486	86.256	40.304	1.00	100.07	F
ATOM	12179	CB	ALA	F	504	107.430	87.401	40.829	1.00	5.07	F
ATOM	12180	C	ALA	F	504	106.070	85.307	41.438	1.00	100.07	F
ATOM	12181	O	ALA	F	504	106.858	84.473	41.894	1.00	100.07	F
ATOM	12182	N	ALA	F	505	104.816	85.430	41.868	1.00	98.28	F
ATOM	12183	CA	ALA	F	505	104.276	84.589	42.924	1.00	98.28	F
ATOM	12184	CB	ALA	F	505	103.045	85.238	43.518	1.00	32.21	F
ATOM	12185	C	ALA	F	505	103.926	83.220	42.354	1.00	98.28	F
ATOM	12186	O	ALA	F	505	104.463	82.201	42.794	1.00	98.28	F
ATOM	12187	N	GLY	F	506	103.028	83.200	41.372	1.00	64.41	F
ATOM	12188	CA	GLY	F	506	102.632	81.946	40.756	1.00	64.41	F
ATOM	12189	C	GLY	F	506	102.075	82.191	39.370	1.00	64.41	F
ATOM	12190	O	GLY	F	506	100.863	82.299	39.216	1.00	64.41	F
ATOM	12191	N	ALA	F	507	102.952	82.280	38.366	1.00	100.07	F
ATOM	12192	CA	ALA	F	507	102.537	82.530	36.975	1.00	100.07	F
ATOM	12193	CB	ALA	F	507	102.296	84.033	36.769	1.00	100.07	F
ATOM	12194	C	ALA	F	507	103.522	82.019	35.907	1.00	100.07	F
ATOM	12195	O	ALA	F	507	103.974	80.875	35.966	1.00	100.07	F
ATOM	12196	N	ALA	F	508	103.820	82.889	34.935	1.00	78.66	F
ATOM	12197	CA	ALA	F	508	104.733	82.643	33.805	1.00	78.66	F
ATOM	12198	CB	ALA	F	508	104.817	81.156	33.471	1.00	8.77	F
ATOM	12199	C	ALA	F	508	104.190	83.400	32.595	1.00	78.66	F
ATOM	12200	O	ALA	F	508	103.188	84.098	32.700	1.00	78.66	F
ATOM	12201	N	PRO	F	509	104.867	83.303	31.441	1.00	37.13	F
ATOM	12202	CD	PRO	F	509	106.278	82.889	31.292	1.00	100.07	F
ATOM	12203	CA	PRO	F	509	104.416	83.979	30.221	1.00	37.13	F
ATOM	12204	CB	PRO	F	509	105.706	84.545	29.663	1.00	100.07	F
ATOM	12205	CG	PRO	F	509	106.642	83.385	29.874	1.00	100.07	F
ATOM	12206	C	PRO	F	509	103.860	82.849	29.340	1.00	37.13	F
ATOM	12207	O	PRO	F	509	104.193	82.729	28.153	1.00	37.13	F
ATOM	12208	N	GLU	F	510	103.048	81.996	29.968	1.00	99.79	F
ATOM	12209	CA	GLU	F	510	102.416	80.848	29.320	1.00	99.79	F
ATOM	12210	CB	GLU	F	510	102.211	79.729	30.347	1.00	60.32	F
ATOM	12211	CG	GLU	F	510	103.496	79.265	31.021	1.00	60.32	F
ATOM	12212	CD	GLU	F	510	103.286	78.189	32.093	1.00	60.32	F
ATOM	12213	OE1	GLU	F	510	102.708	77.115	31.789	1.00	60.32	F
ATOM	12214	OE2	GLU	F	510	103.719	78.416	33.248	1.00	60.32	F
ATOM	12215	C	GLU	F	510	101.070	81.266	28.729	1.00	99.79	F
ATOM	12216	O	GLU	F	510	100.292	80.439	28.256	1.00	99.79	F
ATOM	12217	N	TRP	F	511	100.807	82.564	28.769	1.00	37.61	F
ATOM	12218	CA	TRP	F	511	99.581	83.118	28.248	1.00	37.61	F
ATOM	12219	CB	TRP	F	511	98.986	84.108	29.249	1.00	99.43	F
ATOM	12220	CG	TRP	F	511	99.942	85.166	29.700	1.00	99.43	F
ATOM	12221	CD2	TRP	F	511	99.611	86.427	30.293	1.00	99.43	F
ATOM	12222	CE2	TRP	F	511	100.824	87.048	30.660	1.00	99.43	F
ATOM	12223	CE3	TRP	F	511	98.407	87.090	30.555	1.00	99.43	F
ATOM	12224	CD1	TRP	F	511	101.303	85.082	29.724	1.00	99.43	F
ATOM	12225	NE1	TRP	F	511	101.842	86.206	30.300	1.00	99.43	F
ATOM	12226	CZ2	TRP	F	511	100.869	88.302	31.279	1.00	99.43	F

ATOM	12227	CZ3	TRP	F	511	98.454	88.339	31.173	1.00	99.43	F
ATOM	12228	CH2	TRP	F	511	99.678	88.928	31.527	1.00	99.43	F
ATOM	12229	C	TRP	F	511	99.856	83.815	26.938	1.00	37.61	F
ATOM	12230	O	TRP	F	511	99.749	85.024	26.845	1.00	37.61	F
ATOM	12231	N	MET	F	512	100.246	83.044	25.936	1.00	34.52	F
ATOM	12232	CA	MET	F	512	100.501	83.558	24.596	1.00	34.52	F
ATOM	12233	CB	MET	F	512	101.934	84.073	24.470	1.00	100.07	F
ATOM	12234	CG	MET	F	512	102.083	85.472	25.067	1.00	100.07	F
ATOM	12235	SD	MET	F	512	103.768	86.097	25.387	1.00	100.07	F
ATOM	12236	CE	MET	F	512	104.123	85.297	26.972	1.00	100.07	F
ATOM	12237	C	MET	F	512	100.242	82.360	23.699	1.00	34.52	F
ATOM	12238	O	MET	F	512	100.638	82.324	22.542	1.00	34.52	F
ATOM	12239	N	ALA	F	513	99.536	81.399	24.300	1.00	99.70	F
ATOM	12240	CA	ALA	F	513	99.099	80.114	23.737	1.00	99.70	F
ATOM	12241	CB	ALA	F	513	97.557	80.056	23.722	1.00	47.92	F
ATOM	12242	C	ALA	F	513	99.621	79.622	22.394	1.00	99.70	F
ATOM	12243	O	ALA	F	513	99.696	80.364	21.415	1.00	99.70	F
ATOM	12244	N	ALA	F	514	99.953	78.333	22.377	1.00	55.02	F
ATOM	12245	CA	ALA	F	514	100.442	77.631	21.197	1.00	55.02	F
ATOM	12246	CB	ALA	F	514	101.959	77.489	21.244	1.00	57.22	F
ATOM	12247	C	ALA	F	514	99.789	76.258	21.254	1.00	55.02	F
ATOM	12248	O	ALA	F	514	100.477	75.237	21.237	1.00	55.02	F
ATOM	12249	N	ALA	F	515	98.459	76.255	21.349	1.00	100.07	F
ATOM	12250	CA	ALA	F	515	97.653	75.035	21.426	1.00	100.07	F
ATOM	12251	CB	ALA	F	515	98.305	74.023	22.378	1.00	70.16	F
ATOM	12252	C	ALA	F	515	96.233	75.354	21.908	1.00	100.07	F
ATOM	12253	O	ALA	F	515	95.969	75.373	23.115	1.00	100.07	F
ATOM	12254	N	ALA	F	516	95.324	75.599	20.966	1.00	58.93	F
ATOM	12255	CA	ALA	F	516	93.936	75.912	21.300	1.00	58.93	F
ATOM	12256	CB	ALA	F	516	93.247	76.589	20.101	1.00	5.07	F
ATOM	12257	C	ALA	F	516	93.171	74.652	21.729	1.00	58.93	F
ATOM	12258	O	ALA	F	516	93.619	73.525	21.490	1.00	58.93	F
ATOM	12259	N	VAL	F	517	92.014	74.841	22.361	1.00	44.96	F
ATOM	12260	CA	VAL	F	517	91.231	73.709	22.834	1.00	44.96	F
ATOM	12261	CB	VAL	F	517	91.518	73.456	24.331	1.00	100.07	F
ATOM	12262	CG1	VAL	F	517	91.438	71.971	24.626	1.00	100.07	F
ATOM	12263	CG2	VAL	F	517	92.875	74.024	24.716	1.00	100.07	F
ATOM	12264	C	VAL	F	517	89.697	73.777	22.667	1.00	44.96	F
ATOM	12265	O	VAL	F	517	89.036	74.713	23.134	1.00	44.96	F
ATOM	12266	N	PRO	F	518	89.118	72.797	21.959	1.00	66.62	F
ATOM	12267	CD	PRO	F	518	89.811	72.091	20.868	1.00	100.07	F
ATOM	12268	CA	PRO	F	518	87.666	72.745	21.757	1.00	66.62	F
ATOM	12269	CB	PRO	F	518	87.539	72.294	20.306	1.00	100.07	F
ATOM	12270	CG	PRO	F	518	88.672	71.392	20.146	1.00	100.07	F
ATOM	12271	C	PRO	F	518	87.105	71.719	22.748	1.00	66.62	F
ATOM	12272	O	PRO	F	518	87.635	70.611	22.859	1.00	66.62	F
ATOM	12273	N	VAL	F	519	86.052	72.078	23.475	1.00	19.90	F
ATOM	12274	CA	VAL	F	519	85.485	71.153	24.460	1.00	19.90	F
ATOM	12275	CB	VAL	F	519	84.279	71.779	25.175	1.00	65.64	F
ATOM	12276	CG1	VAL	F	519	83.784	70.851	26.269	1.00	65.64	F
ATOM	12277	CG2	VAL	F	519	84.660	73.104	25.744	1.00	65.64	F
ATOM	12278	C	VAL	F	519	85.028	69.842	23.823	1.00	19.90	F
ATOM	12279	O	VAL	F	519	84.744	69.812	22.617	1.00	19.90	F
ATOM	12280	N	LEU	F	520	84.961	68.772	24.624	1.00	49.79	F
ATOM	12281	CA	LEU	F	520	84.498	67.481	24.118	1.00	49.79	F
ATOM	12282	CB	LEU	F	520	84.374	66.454	25.243	1.00	100.07	F
ATOM	12283	CG	LEU	F	520	84.087	65.035	24.730	1.00	100.07	F
ATOM	12284	CD1	LEU	F	520	85.405	64.439	24.244	1.00	100.07	F
ATOM	12285	CD2	LEU	F	520	83.461	64.145	25.811	1.00	100.07	F
ATOM	12286	C	LEU	F	520	83.116	67.803	23.575	1.00	49.79	F
ATOM	12287	O	LEU	F	520	82.388	68.561	24.195	1.00	49.79	F
ATOM	12288	N	PRO	F	521	82.723	67.229	22.428	1.00	35.08	F
ATOM	12289	CD	PRO	F	521	83.381	66.123	21.719	1.00	93.02	F
ATOM	12290	CA	PRO	F	521	81.408	67.507	21.836	1.00	35.08	F
ATOM	12291	CB	PRO	F	521	81.305	66.466	20.719	1.00	93.02	F
ATOM	12292	CG	PRO	F	521	82.201	65.370	21.180	1.00	93.02	F
ATOM	12293	C	PRO	F	521	80.137	67.566	22.710	1.00	35.08	F
ATOM	12294	O	PRO	F	521	79.319	68.480	22.543	1.00	35.08	F
ATOM	12295	N	PRO	F	522	79.950	66.613	23.653	1.00	99.94	F
ATOM	12296	CD	PRO	F	522	80.867	65.541	24.089	1.00	100.07	F
ATOM	12297	CA	PRO	F	522	78.747	66.635	24.503	1.00	99.94	F
ATOM	12298	CB	PRO	F	522	78.891	65.364	25.340	1.00	100.07	F
ATOM	12299	CG	PRO	F	522	80.370	65.234	25.496	1.00	100.07	F
ATOM	12300	C	PRO	F	522	78.613	67.892	25.364	1.00	99.94	F
ATOM	12301	O	PRO	F	522	78.099	67.846	26.482	1.00	99.94	F
ATOM	12302	N	ASP	F	523	79.079	69.009	24.820	1.00	78.45	F
ATOM	12303	CA	ASP	F	523	79.038	70.299	25.485	1.00	78.45	F
ATOM	12304	CB	ASP	F	523	80.421	70.661	26.004	1.00	97.06	F
ATOM	12305	CG	ASP	F	523	80.428	71.963	26.745	1.00	97.06	F
ATOM	12306	OD1	ASP	F	523	79.881	72.948	26.210	1.00	97.06	F
ATOM	12307	OD2	ASP	F	523	80.983	72.003	27.860	1.00	97.06	F
ATOM	12308	C	ASP	F	523	78.577	71.347	24.475	1.00	78.45	F
ATOM	12309	O	ASP	F	523	77.781	72.230	24.852	1.00	78.45	F
ATOM	12310	OT	ASP	F	523	79.029	71.280	23.315	1.00	97.06	F

ATOM	12311	CB	ALA	G	535	72.510	75.095	18.383	1.00100.07	G
ATOM	12312	C	ALA	G	535	73.810	75.656	20.434	1.00100.07	G
ATOM	12313	O	ALA	G	535	74.091	76.725	20.985	1.00100.07	G
ATOM	12314	N	ALA	G	535	71.558	76.614	20.076	1.00100.07	G
ATOM	12315	CA	ALA	G	535	72.415	75.409	19.874	1.00100.07	G
ATOM	12316	N	ALA	G	536	74.672	74.651	20.322	1.00100.07	G
ATOM	12317	CA	ALA	G	536	76.054	74.798	20.757	1.00100.07	G
ATOM	12318	CB	ALA	G	536	76.562	73.506	21.400	1.00 75.75	G
ATOM	12319	C	ALA	G	536	76.746	75.050	19.422	1.00100.07	G
ATOM	12320	O	ALA	G	536	77.817	75.655	19.355	1.00100.07	G
ATOM	12321	N	THR	G	537	76.067	74.595	18.367	1.00 73.01	G
ATOM	12322	CA	THR	G	537	76.497	74.706	16.977	1.00 73.01	G
ATOM	12323	CB	THR	G	537	75.266	74.720	16.022	1.00100.07	G
ATOM	12324	OG1	THR	G	537	74.459	73.557	16.248	1.00100.07	G
ATOM	12325	CG2	THR	G	537	75.712	74.724	14.573	1.00100.07	G
ATOM	12326	C	THR	G	537	77.328	75.954	16.708	1.00 73.01	G
ATOM	12327	O	THR	G	537	78.401	75.874	16.101	1.00 73.01	G
ATOM	12328	N	SER	G	538	76.828	77.100	17.167	1.00 70.80	G
ATOM	12329	CA	SER	G	538	77.498	78.388	16.968	1.00 70.80	G
ATOM	12330	CB	SER	G	538	76.739	79.496	17.715	1.00 70.37	G
ATOM	12331	OG	SER	G	538	77.174	80.789	17.315	1.00 70.37	G
ATOM	12332	C	SER	G	538	78.977	78.415	17.375	1.00 70.80	G
ATOM	12333	O	SER	G	538	79.708	79.334	17.016	1.00 70.80	G
ATOM	12334	N	ASP	G	539	79.421	77.412	18.119	1.00 80.36	G
ATOM	12335	CA	ASP	G	539	80.812	77.361	18.554	1.00 80.36	G
ATOM	12336	CB	ASP	G	539	80.876	76.982	20.042	1.00 79.91	G
ATOM	12337	CG	ASP	G	539	82.293	77.005	20.600	1.00 79.91	G
ATOM	12338	OD1	ASP	G	539	82.833	78.102	20.864	1.00 79.91	G
ATOM	12339	OD2	ASP	G	539	82.869	75.916	20.770	1.00 79.91	G
ATOM	12340	C	ASP	G	539	81.600	76.349	17.725	1.00 80.36	G
ATOM	12341	O	ASP	G	539	82.824	76.292	17.801	1.00 80.36	G
ATOM	12342	N	LEU	G	540	80.886	75.556	16.932	1.00 47.23	G
ATOM	12343	CA	LEU	G	540	81.496	74.526	16.095	1.00 47.23	G
ATOM	12344	CB	LEU	G	540	80.603	73.286	16.041	1.00 72.45	G
ATOM	12345	CG	LEU	G	540	80.626	72.347	17.243	1.00 72.45	G
ATOM	12346	CD1	LEU	G	540	79.481	71.350	17.146	1.00 72.45	G
ATOM	12347	CD2	LEU	G	540	81.972	71.637	17.295	1.00 72.45	G
ATOM	12348	C	LEU	G	540	81.717	75.024	14.686	1.00 47.23	G
ATOM	12349	O	LEU	G	540	82.824	75.432	14.326	1.00 47.23	G
ATOM	12350	N	ASN	G	541	80.654	74.987	13.887	1.00 80.65	G
ATOM	12351	CA	ASN	G	541	80.752	75.438	12.514	1.00 80.65	G
ATOM	12352	CB	ASN	G	541	79.379	75.551	11.860	1.00100.07	G
ATOM	12353	CG	ASN	G	541	79.474	75.926	10.385	1.00100.07	G
ATOM	12354	OD1	ASN	G	541	80.015	75.166	9.572	1.00100.07	G
ATOM	12355	ND2	ASN	G	541	78.960	77.106	10.036	1.00100.07	G
ATOM	12356	C	ASN	G	541	81.403	76.800	12.549	1.00 80.65	G
ATOM	12357	O	ASN	G	541	81.704	77.397	11.513	1.00 80.65	G
ATOM	12358	N	ASP	G	542	81.608	77.292	13.762	1.00 99.61	G
ATOM	12359	CA	ASP	G	542	82.237	78.576	13.960	1.00 99.61	G
ATOM	12360	CB	ASP	G	542	81.293	79.527	14.705	1.00100.07	G
ATOM	12361	CG	ASP	G	542	79.946	79.684	14.013	1.00100.07	G
ATOM	12362	OD1	ASP	G	542	79.930	79.892	12.780	1.00100.07	G
ATOM	12363	OD2	ASP	G	542	78.906	79.613	14.704	1.00100.07	G
ATOM	12364	C	ASP	G	542	83.500	78.396	14.777	1.00 99.61	G
ATOM	12365	O	ASP	G	542	83.602	77.477	15.588	1.00 99.61	G
ATOM	12366	N	LEU	G	543	84.465	79.272	14.531	1.00 96.41	G
ATOM	12367	CA	LEU	G	543	85.714	79.285	15.271	1.00 96.41	G
ATOM	12368	CB	LEU	G	543	85.450	79.884	16.659	1.00 99.66	G
ATOM	12369	CG	LEU	G	543	84.549	81.128	16.673	1.00 99.66	G
ATOM	12370	CD1	LEU	G	543	84.315	81.601	18.092	1.00 99.66	G
ATOM	12371	CD2	LEU	G	543	85.191	82.222	15.852	1.00 99.66	G
ATOM	12372	C	LEU	G	543	86.411	77.935	15.411	1.00 96.41	G
ATOM	12373	O	LEU	G	543	87.488	77.850	15.988	1.00 96.41	G
ATOM	12374	N	TYR	G	544	85.800	76.875	14.910	1.00 98.18	G
ATOM	12375	CA	TYR	G	544	86.427	75.567	14.989	1.00 98.18	G
ATOM	12376	CB	TYR	G	544	85.666	74.657	15.945	1.00 70.00	G
ATOM	12377	CG	TYR	G	544	86.036	74.883	17.394	1.00 70.00	G
ATOM	12378	CD1	TYR	G	544	85.287	74.314	18.424	1.00 70.00	G
ATOM	12379	CE1	TYR	G	544	85.628	74.511	19.759	1.00 70.00	G
ATOM	12380	CD2	TYR	G	544	87.140	75.657	17.739	1.00 70.00	G
ATOM	12381	CE2	TYR	G	544	87.491	75.858	19.072	1.00 70.00	G
ATOM	12382	CZ	TYR	G	544	86.733	75.281	20.075	1.00 70.00	G
ATOM	12383	OH	TYR	G	544	87.100	75.443	21.392	1.00 70.00	G
ATOM	12384	C	TYR	G	544	86.420	75.036	13.579	1.00 98.18	G
ATOM	12385	O	TYR	G	544	87.085	74.055	13.246	1.00 98.18	G
ATOM	12386	N	ARG	G	545	85.639	75.712	12.752	1.00 90.26	G
ATOM	12387	CA	ARG	G	545	85.563	75.403	11.344	1.00 90.26	G
ATOM	12388	CB	ARG	G	545	84.124	75.552	10.841	1.00100.07	G
ATOM	12389	CG	ARG	G	545	83.941	75.377	9.335	1.00100.07	G
ATOM	12390	CD	ARG	G	545	82.605	75.953	8.881	1.00100.07	G
ATOM	12391	NE	ARG	G	545	82.452	75.947	7.427	1.00100.07	G
ATOM	12392	CZ	ARG	G	545	81.434	76.506	6.776	1.00100.07	G
ATOM	12393	NH1	ARG	G	545	80.469	77.122	7.447	1.00100.07	G
ATOM	12394	NH2	ARG	G	545	81.377	76.448	5.451	1.00100.07	G

ATOM	12563	CG1	ILE	G	566	99.919	86.204	-0.712	1.00	96.39	G
ATOM	12564	CD	ILE	G	566	98.630	86.663	-0.042	1.00	96.39	G
ATOM	12565	C	ILE	G	566	101.403	84.513	2.452	1.00	100.07	G
ATOM	12566	O	ILE	G	566	101.402	83.324	2.119	1.00	100.07	G
ATOM	12567	N	ILE	G	567	101.705	84.938	3.675	1.00	97.69	G
ATOM	12568	CA	ILE	G	567	102.050	84.093	4.815	1.00	97.69	G
ATOM	12569	CB	ILE	G	567	103.515	83.605	4.759	1.00	60.58	G
ATOM	12570	CG2	ILE	G	567	103.941	83.066	6.111	1.00	60.58	G
ATOM	12571	CG1	ILE	G	567	103.670	82.534	3.689	1.00	60.58	G
ATOM	12572	CD	ILE	G	567	105.087	82.344	3.278	1.00	60.58	G
ATOM	12573	C	ILE	G	567	101.926	85.091	5.947	1.00	97.69	G
ATOM	12574	O	ILE	G	567	101.336	84.810	6.980	1.00	97.69	G
ATOM	12575	N	ARG	G	568	102.501	86.269	5.726	1.00	100.07	G
ATOM	12576	CA	ARG	G	568	102.435	87.347	6.700	1.00	100.07	G
ATOM	12577	CB	ARG	G	568	103.088	88.635	6.172	1.00	100.07	G
ATOM	12578	CG	ARG	G	568	104.444	88.988	6.776	1.00	100.07	G
ATOM	12579	CD	ARG	G	568	104.879	90.378	6.346	1.00	100.07	G
ATOM	12580	NE	ARG	G	568	106.333	90.492	6.304	1.00	100.07	G
ATOM	12581	CZ	ARG	G	568	106.988	91.553	5.841	1.00	100.07	G
ATOM	12582	NH1	ARG	G	568	106.322	92.605	5.381	1.00	100.07	G
ATOM	12583	NH2	ARG	G	568	108.314	91.559	5.819	1.00	100.07	G
ATOM	12584	C	ARG	G	568	100.960	87.608	6.877	1.00	100.07	G
ATOM	12585	O	ARG	G	568	100.307	86.994	7.721	1.00	100.07	G
ATOM	12586	N	ASN	G	569	100.437	88.508	6.049	1.00	100.07	G
ATOM	12587	CA	ASN	G	569	99.036	88.870	6.118	1.00	100.07	G
ATOM	12588	CB	ASN	G	569	98.723	89.966	5.101	1.00	69.10	G
ATOM	12589	CG	ASN	G	569	98.361	89.417	3.759	1.00	69.10	G
ATOM	12590	OD1	ASN	G	569	99.066	88.577	3.210	1.00	69.10	G
ATOM	12591	ND2	ASN	G	569	97.254	89.890	3.211	1.00	69.10	G
ATOM	12592	C	ASN	G	569	98.159	87.645	5.886	1.00	100.07	G
ATOM	12593	O	ASN	G	569	96.951	87.693	6.122	1.00	100.07	G
ATOM	12594	N	GLU	G	570	98.768	86.548	5.432	1.00	58.80	G
ATOM	12595	CA	GLU	G	570	98.029	85.307	5.209	1.00	58.80	G
ATOM	12596	CB	GLU	G	570	98.686	84.478	4.108	1.00	99.33	G
ATOM	12597	CG	GLU	G	570	98.009	84.644	2.754	1.00	99.33	G
ATOM	12598	CD	GLU	G	570	96.751	83.805	2.623	1.00	99.33	G
ATOM	12599	OE1	GLU	G	570	95.973	83.751	3.599	1.00	99.33	G
ATOM	12600	OE2	GLU	G	570	96.539	83.207	1.543	1.00	99.33	G
ATOM	12601	C	GLU	G	570	97.949	84.502	6.503	1.00	58.80	G
ATOM	12602	O	GLU	G	570	97.381	83.411	6.534	1.00	58.80	G
ATOM	12603	N	LYS	G	571	98.536	85.060	7.563	1.00	100.07	G
ATOM	12604	CA	LYS	G	571	98.534	84.467	8.903	1.00	100.07	G
ATOM	12605	CB	LYS	G	571	99.955	84.321	9.463	1.00	99.54	G
ATOM	12606	CG	LYS	G	571	99.999	83.812	10.899	1.00	99.54	G
ATOM	12607	CD	LYS	G	571	101.396	83.904	11.500	1.00	99.54	G
ATOM	12608	CE	LYS	G	571	101.358	83.672	13.014	1.00	99.54	G
ATOM	12609	NZ	LYS	G	571	102.687	83.790	13.692	1.00	99.54	G
ATOM	12610	C	LYS	G	571	97.771	85.453	9.761	1.00	100.07	G
ATOM	12611	O	LYS	G	571	97.320	85.129	10.859	1.00	100.07	G
ATOM	12612	N	ARG	G	572	97.658	86.675	9.249	1.00	69.60	G
ATOM	12613	CA	ARG	G	572	96.922	87.717	9.933	1.00	69.60	G
ATOM	12614	CB	ARG	G	572	96.559	88.849	8.974	1.00	99.49	G
ATOM	12615	CG	ARG	G	572	95.402	89.698	9.487	1.00	99.49	G
ATOM	12616	CD	ARG	G	572	94.596	90.375	8.370	1.00	99.49	G
ATOM	12617	NE	ARG	G	572	93.357	90.966	8.888	1.00	99.49	G
ATOM	12618	CZ	ARG	G	572	92.505	91.698	8.174	1.00	99.49	G
ATOM	12619	NH1	ARG	G	572	92.741	91.949	6.893	1.00	99.49	G
ATOM	12620	NH2	ARG	G	572	91.411	92.181	8.745	1.00	99.49	G
ATOM	12621	C	ARG	G	572	95.644	87.034	10.361	1.00	69.60	G
ATOM	12622	O	ARG	G	572	95.180	87.188	11.495	1.00	69.60	G
ATOM	12623	N	MET	G	573	95.091	86.265	9.426	1.00	100.07	G
ATOM	12624	CA	MET	G	573	93.855	85.535	9.645	1.00	100.07	G
ATOM	12625	CB	MET	G	573	93.361	84.937	8.321	1.00	100.07	G
ATOM	12626	CG	MET	G	573	94.473	84.422	7.425	1.00	100.07	G
ATOM	12627	SD	MET	G	573	93.965	83.087	6.310	1.00	100.07	G
ATOM	12628	CE	MET	G	573	94.860	81.678	7.053	1.00	100.07	G
ATOM	12629	C	MET	G	573	93.918	84.443	10.722	1.00	100.07	G
ATOM	12630	O	MET	G	573	92.951	84.277	11.468	1.00	100.07	G
ATOM	12631	N	LEU	G	574	95.027	83.707	10.828	1.00	92.74	G
ATOM	12632	CA	LEU	G	574	95.091	82.650	11.840	1.00	92.74	G
ATOM	12633	CB	LEU	G	574	96.466	81.996	11.927	1.00	61.13	G
ATOM	12634	CG	LEU	G	574	96.448	81.011	13.106	1.00	61.13	G
ATOM	12635	CD1	LEU	G	574	95.320	80.038	12.928	1.00	61.13	G
ATOM	12636	CD2	LEU	G	574	97.731	80.264	13.193	1.00	61.13	G
ATOM	12637	C	LEU	G	574	94.733	83.152	13.222	1.00	92.74	G
ATOM	12638	O	LEU	G	574	93.666	82.831	13.746	1.00	92.74	G
ATOM	12639	N	GLN	G	575	95.636	83.918	13.827	1.00	100.07	G
ATOM	12640	CA	GLN	G	575	95.364	84.459	15.151	1.00	100.07	G
ATOM	12641	CB	GLN	G	575	96.471	85.414	15.598	1.00	98.80	G
ATOM	12642	CG	GLN	G	575	96.193	86.034	16.945	1.00	98.80	G
ATOM	12643	CD	GLN	G	575	97.410	86.057	17.823	1.00	98.80	G
ATOM	12644	OE1	GLN	G	575	98.116	85.063	17.937	1.00	98.80	G
ATOM	12645	NE2	GLN	G	575	97.659	87.184	18.464	1.00	98.80	G
ATOM	12646	C	GLN	G	575	94.038	85.205	15.094	1.00	100.07	G

ATOM	12647	O	GLN	G	575	93.219	85.100	16.011	1.00	100.07	G
ATOM	12648	N	GLU	G	576	93.834	85.956	14.009	1.00	53.26	G
ATOM	12649	CA	GLU	G	576	92.600	86.694	13.831	1.00	53.26	G
ATOM	12650	CB	GLU	G	576	92.437	87.116	12.372	1.00	89.35	G
ATOM	12651	CG	GLU	G	576	91.068	87.670	12.025	1.00	89.35	G
ATOM	12652	CD	GLU	G	576	90.582	88.707	13.019	1.00	89.35	G
ATOM	12653	OE1	GLU	G	576	91.385	89.602	13.368	1.00	89.35	G
ATOM	12654	OE2	GLU	G	576	89.399	88.630	13.443	1.00	89.35	G
ATOM	12655	C	GLU	G	576	91.520	85.711	14.241	1.00	53.26	G
ATOM	12656	O	GLU	G	576	90.693	85.998	15.104	1.00	53.26	G
ATOM	12657	N	ALA	G	577	91.559	84.527	13.651	1.00	83.08	G
ATOM	12658	CA	ALA	G	577	90.586	83.509	13.984	1.00	83.08	G
ATOM	12659	CB	ALA	G	577	90.836	82.258	13.163	1.00	89.31	G
ATOM	12660	C	ALA	G	577	90.649	83.184	15.477	1.00	83.08	G
ATOM	12661	O	ALA	G	577	89.638	83.281	16.168	1.00	83.08	G
ATOM	12662	N	VAL	G	578	91.831	82.820	15.980	1.00	49.06	G
ATOM	12663	CA	VAL	G	578	91.979	82.460	17.396	1.00	49.06	G
ATOM	12664	CB	VAL	G	578	93.428	82.178	17.762	1.00	94.26	G
ATOM	12665	CG1	VAL	G	578	93.482	81.450	19.106	1.00	94.26	G
ATOM	12666	CG2	VAL	G	578	94.087	81.373	16.660	1.00	94.26	G
ATOM	12667	C	VAL	G	578	91.468	83.528	18.350	1.00	49.06	G
ATOM	12668	O	VAL	G	578	90.684	83.244	19.263	1.00	49.06	G
ATOM	12669	N	ASP	G	579	91.942	84.753	18.159	1.00	68.63	G
ATOM	12670	CA	ASP	G	579	91.483	85.843	18.993	1.00	68.63	G
ATOM	12671	CB	ASP	G	579	92.306	87.110	18.765	1.00	100.07	G
ATOM	12672	CG	ASP	G	579	93.656	87.057	19.457	1.00	100.07	G
ATOM	12673	OD1	ASP	G	579	93.702	86.659	20.649	1.00	100.07	G
ATOM	12674	OD2	ASP	G	579	94.664	87.422	18.810	1.00	100.07	G
ATOM	12675	C	ASP	G	579	90.058	86.056	18.547	1.00	68.63	G
ATOM	12676	O	ASP	G	579	89.722	87.088	17.955	1.00	68.63	G
ATOM	12677	N	ALA	G	580	89.244	85.037	18.818	1.00	74.70	G
ATOM	12678	CA	ALA	G	580	87.834	85.019	18.475	1.00	74.70	G
ATOM	12679	CB	ALA	G	580	87.660	84.922	16.968	1.00	87.10	G
ATOM	12680	C	ALA	G	580	87.188	83.826	19.162	1.00	74.70	G
ATOM	12681	O	ALA	G	580	86.262	83.990	19.956	1.00	74.70	G
ATOM	12682	N	VAL	G	581	87.680	82.627	18.859	1.00	85.22	G
ATOM	12683	CA	VAL	G	581	87.150	81.414	19.475	1.00	85.22	G
ATOM	12684	CB	VAL	G	581	88.129	80.242	19.364	1.00	54.15	G
ATOM	12685	CG1	VAL	G	581	87.590	79.034	20.093	1.00	54.15	G
ATOM	12686	CG2	VAL	G	581	88.348	79.903	17.925	1.00	54.15	G
ATOM	12687	C	VAL	G	581	86.960	81.724	20.941	1.00	85.22	G
ATOM	12688	O	VAL	G	581	86.075	81.183	21.601	1.00	85.22	G
ATOM	12689	N	ILE	G	582	87.813	82.609	21.439	1.00	66.09	G
ATOM	12690	CA	ILE	G	582	87.750	83.036	22.820	1.00	66.09	G
ATOM	12691	CB	ILE	G	582	89.108	83.595	23.265	1.00	99.33	G
ATOM	12692	CG2	ILE	G	582	89.185	83.647	24.779	1.00	99.33	G
ATOM	12693	CG1	ILE	G	582	90.220	82.681	22.747	1.00	99.33	G
ATOM	12694	CD	ILE	G	582	91.611	83.202	22.993	1.00	99.33	G
ATOM	12695	C	ILE	G	582	86.670	84.113	22.884	1.00	66.09	G
ATOM	12696	O	ILE	G	582	85.622	83.985	22.248	1.00	66.09	G
ATOM	12697	N	ASP	G	583	86.922	85.178	23.629	1.00	100.07	G
ATOM	12698	CA	ASP	G	583	85.936	86.238	23.760	1.00	100.07	G
ATOM	12699	CB	ASP	G	583	86.386	87.247	24.813	1.00	83.18	G
ATOM	12700	CG	ASP	G	583	86.599	86.601	26.153	1.00	83.18	G
ATOM	12701	OD1	ASP	G	583	85.704	85.824	26.545	1.00	83.18	G
ATOM	12702	OD2	ASP	G	583	87.642	86.858	26.803	1.00	83.18	G
ATOM	12703	C	ASP	G	583	85.618	86.949	22.460	1.00	100.07	G
ATOM	12704	O	ASP	G	583	85.399	88.158	22.457	1.00	100.07	G
ATOM	12705	N	ASN	G	584	85.603	86.185	21.370	1.00	30.51	G
ATOM	12706	CA	ASN	G	584	85.278	86.683	20.041	1.00	30.51	G
ATOM	12707	CB	ASN	G	584	84.303	85.708	19.391	1.00	69.42	G
ATOM	12708	CG	ASN	G	584	84.042	86.020	17.943	1.00	69.42	G
ATOM	12709	OD1	ASN	G	584	83.782	87.167	17.576	1.00	69.42	G
ATOM	12710	ND2	ASN	G	584	84.095	84.993	17.104	1.00	69.42	G
ATOM	12711	C	ASN	G	584	84.633	88.068	20.099	1.00	30.51	G
ATOM	12712	O	ASN	G	584	83.430	88.203	19.863	1.00	30.51	G
ATOM	12713	N	GLY	G	585	85.425	89.097	20.396	1.00	100.07	G
ATOM	12714	CA	GLY	G	585	84.870	90.437	20.510	1.00	100.07	G
ATOM	12715	C	GLY	G	585	85.441	91.513	19.609	1.00	100.07	G
ATOM	12716	O	GLY	G	585	86.646	91.556	19.369	1.00	100.07	G
ATOM	12717	N	ARG	G	586	84.558	92.389	19.126	1.00	100.07	G
ATOM	12718	CA	ARG	G	586	84.910	93.499	18.235	1.00	100.07	G
ATOM	12719	CB	ARG	G	586	86.133	94.256	18.779	1.00	99.49	G
ATOM	12720	CG	ARG	G	586	85.906	94.938	20.145	1.00	99.49	G
ATOM	12721	CD	ARG	G	586	87.091	95.843	20.536	1.00	99.49	G
ATOM	12722	NE	ARG	G	586	86.937	96.473	21.851	1.00	99.49	G
ATOM	12723	CZ	ARG	G	586	87.779	97.373	22.358	1.00	99.49	G
ATOM	12724	NH1	ARG	G	586	88.848	97.764	21.672	1.00	99.49	G
ATOM	12725	NH2	ARG	G	586	87.546	97.891	23.555	1.00	99.49	G
ATOM	12726	C	ARG	G	586	85.144	93.044	16.782	1.00	100.07	G
ATOM	12727	O	ARG	G	586	85.863	92.077	16.526	1.00	100.07	G
ATOM	12728	N	ARG	G	587	84.538	93.770	15.842	1.00	78.77	G
ATOM	12729	CA	ARG	G	587	84.601	93.455	14.418	1.00	78.77	G
ATOM	12730	CB	ARG	G	587	86.039	93.249	13.931	1.00	100.07	G

ATOM	12731	CG	ARG	G	587	86.090	92.980	12.427	1.00100.07	G
ATOM	12732	CD	ARG	G	587	87.409	92.388	11.909	1.00100.07	G
ATOM	12733	NE	ARG	G	587	87.307	92.078	10.475	1.00100.07	G
ATOM	12734	CZ	ARG	G	587	88.275	91.540	9.730	1.00100.07	G
ATOM	12735	NH1	ARG	G	587	89.449	91.238	10.272	1.00100.07	G
ATOM	12736	NH2	ARG	G	587	88.069	91.303	8.437	1.00100.07	G
ATOM	12737	C	ARG	G	587	83.821	92.159	14.227	1.00 78.77	G
ATOM	12738	O	ARG	G	587	84.336	91.200	13.658	1.00 78.77	G
ATOM	12739	N	GLY	G	588	82.585	92.143	14.727	1.00 79.03	G
ATOM	12740	CA	GLY	G	588	81.720	90.974	14.641	1.00 79.03	G
ATOM	12741	C	GLY	G	588	82.142	89.901	13.655	1.00 79.03	G
ATOM	12742	O	GLY	G	588	82.416	90.184	12.490	1.00 79.03	G
ATOM	12743	N	SER	G	589	82.200	88.661	14.118	1.00 75.86	G
ATOM	12744	CA	SER	G	589	82.588	87.554	13.254	1.00 75.86	G
ATOM	12745	CB	SER	G	589	83.758	86.792	13.867	1.00 61.57	G
ATOM	12746	OG	SER	G	589	83.412	86.293	15.146	1.00 61.57	G
ATOM	12747	C	SER	G	589	81.395	86.624	13.092	1.00 75.86	G
ATOM	12748	O	SER	G	589	81.317	85.571	13.725	1.00 75.86	G
ATOM	12749	N	PRO	G	590	80.449	87.003	12.226	1.00 67.14	G
ATOM	12750	CD	PRO	G	590	80.461	88.258	11.453	1.00 93.37	G
ATOM	12751	CA	PRO	G	590	79.231	86.237	11.952	1.00 67.14	G
ATOM	12752	CB	PRO	G	590	78.313	87.298	11.369	1.00 93.37	G
ATOM	12753	CG	PRO	G	590	79.275	88.084	10.525	1.00 93.37	G
ATOM	12754	C	PRO	G	590	79.368	85.033	11.015	1.00 67.14	G
ATOM	12755	O	PRO	G	590	80.178	84.129	11.230	1.00 67.14	G
ATOM	12756	N	VAL	G	591	78.527	85.047	9.986	1.00 87.84	G
ATOM	12757	CA	VAL	G	591	78.463	84.026	8.951	1.00 87.84	G
ATOM	12758	CB	VAL	G	591	77.511	82.878	9.365	1.00 38.71	G
ATOM	12759	CG1	VAL	G	591	77.480	81.809	8.305	1.00 38.71	G
ATOM	12760	CG2	VAL	G	591	77.965	82.276	10.656	1.00 38.71	G
ATOM	12761	C	VAL	G	591	77.894	84.777	7.740	1.00 87.84	G
ATOM	12762	O	VAL	G	591	77.555	85.956	7.862	1.00 87.84	G
ATOM	12763	N	THR	G	592	77.788	84.105	6.591	1.00100.07	G
ATOM	12764	CA	THR	G	592	77.278	84.697	5.339	1.00100.07	G
ATOM	12765	CB	THR	G	592	75.727	84.452	5.146	1.00 89.62	G
ATOM	12766	OG1	THR	G	592	74.992	84.963	6.263	1.00 89.62	G
ATOM	12767	CG2	THR	G	592	75.434	82.964	4.993	1.00 89.62	G
ATOM	12768	C	THR	G	592	77.579	86.196	5.132	1.00100.07	G
ATOM	12769	O	THR	G	592	76.686	86.979	4.771	1.00100.07	G
ATOM	12770	N	ASN	G	593	78.844	86.575	5.346	1.00100.07	G
ATOM	12771	CA	ASN	G	593	79.310	87.962	5.184	1.00100.07	G
ATOM	12772	CB	ASN	G	593	80.836				

ATOM	12815	N	PRO	G	599	76.155	87.703	15.007	1.00	67.92	G
ATOM	12816	CD	PRO	G	599	75.980	88.937	15.790	1.00	56.78	G
ATOM	12817	CA	PRO	G	599	77.428	87.058	15.353	1.00	67.92	G
ATOM	12818	CB	PRO	G	599	78.015	87.999	16.407	1.00	56.78	G
ATOM	12819	CG	PRO	G	599	76.804	88.645	17.004	1.00	56.78	G
ATOM	12820	C	PRO	G	599	77.312	85.611	15.846	1.00	67.92	G
ATOM	12821	O	PRO	G	599	76.225	85.029	15.828	1.00	67.92	G
ATOM	12822	N	LEU	G	600	78.434	85.040	16.290	1.00	33.54	G
ATOM	12823	CA	LEU	G	600	78.468	83.655	16.759	1.00	33.54	G
ATOM	12824	CB	LEU	G	600	79.523	82.885	15.969	1.00	50.34	G
ATOM	12825	CG	LEU	G	600	79.547	83.272	14.489	1.00	50.34	G
ATOM	12826	CD1	LEU	G	600	80.734	82.640	13.780	1.00	50.34	G
ATOM	12827	CD2	LEU	G	600	78.242	82.856	13.857	1.00	50.34	G
ATOM	12828	C	LEU	G	600	78.766	83.555	18.250	1.00	33.54	G
ATOM	12829	O	LEU	G	600	79.576	84.315	18.790	1.00	33.54	G
ATOM	12830	N	ARG	G	601	78.110	82.599	18.905	1.00	99.93	G
ATOM	12831	CA	ARG	G	601	78.256	82.365	20.345	1.00	99.93	G
ATOM	12832	CB	ARG	G	601	77.073	81.516	20.834	1.00	100.07	G
ATOM	12833	CG	ARG	G	601	75.721	82.173	20.517	1.00	100.07	G
ATOM	12834	CD	ARG	G	601	74.510	81.448	21.106	1.00	100.07	G
ATOM	12835	NE	ARG	G	601	73.274	82.207	20.883	1.00	100.07	G
ATOM	12836	CZ	ARG	G	601	72.044	81.744	21.106	1.00	100.07	G
ATOM	12837	NH1	ARG	G	501	71.855	80.511	21.563	1.00	100.07	G
ATOM	12838	NH2	ARG	G	601	70.997	82.519	20.867	1.00	100.07	G
ATOM	12839	C	ARG	G	601	79.594	81.707	20.697	1.00	99.93	G
ATOM	12840	O	ARG	G	601	79.704	80.485	20.775	1.00	99.93	G
ATOM	12841	N	SER	G	602	80.600	82.539	20.935	1.00	61.69	G
ATOM	12842	CA	SER	G	602	81.942	82.065	21.235	1.00	61.69	G
ATOM	12843	CB	SER	G	602	82.966	83.116	20.794	1.00	99.19	G
ATOM	12844	OG	SER	G	602	82.786	84.339	21.488	1.00	99.19	G
ATOM	12845	C	SER	G	602	82.228	81.686	22.680	1.00	61.69	G
ATOM	12846	O	SER	G	602	81.469	82.028	23.591	1.00	61.69	G
ATOM	12847	N	LEU	G	603	83.348	80.983	22.870	1.00	56.92	G
ATOM	12848	CA	LEU	G	603	83.795	80.551	24.191	1.00	56.92	G
ATOM	12849	CB	LEU	G	603	85.145	79.848	24.119	1.00	93.55	G
ATOM	12850	CG	LEU	G	603	85.285	78.699	23.133	1.00	93.55	G
ATOM	12851	CD1	LEU	G	603	86.633	78.018	23.356	1.00	93.55	G
ATOM	12852	CD2	LEU	G	603	84.145	77.721	23.327	1.00	93.55	G
ATOM	12853	C	LEU	G	603	83.952	81.766	25.068	1.00	56.92	G
ATOM	12854	O	LEU	G	603	84.806	82.621	24.822	1.00	56.92	G
ATOM	12855	N	THR	G	604	83.125	81.841	26.098	1.00	46.27	G
ATOM	12856	CA	THR	G	604	83.177	82.960	27.022	1.00	46.27	G
ATOM	12857	CB	THR	G	604	84.602	83.176	27.555	1.00	100.07	G
ATOM	12858	OG1	THR	G	604	85.347	81.954	27.453	1.00	100.07	G
ATOM	12859	CG2	THR	G	604	84.548	83.583	29.015	1.00	100.07	G
ATOM	12860	C	THR	G	604	82.689	84.217	26.316	1.00	46.27	G
ATOM	12861	O	THR	G	604	83.409	85.212	26.188	1.00	46.27	G
ATOM	12862	N	ASP	G	605	81.452	84.116	25.837	1.00	83.07	G
ATOM	12863	CA	ASP	G	605	80.726	85.174	25.144	1.00	83.07	G
ATOM	12864	CB	ASP	G	605	80.995	85.137	23.641	1.00	100.07	G
ATOM	12865	CG	ASP	G	605	80.070	86.054	22.867	1.00	100.07	G
ATOM	12866	OD1	ASP	G	605	78.897	85.674	22.676	1.00	100.07	G
ATOM	12867	OD2	ASP	G	605	80.504	87.158	22.463	1.00	100.07	G
ATOM	12868	C	ASP	G	605	79.285	84.796	25.423	1.00	83.07	G
ATOM	12869	O	ASP	G	605	78.533	85.544	26.048	1.00	83.07	G
ATOM	12870	N	ILE	G	606	78.916	83.616	24.941	1.00	79.89	G
ATOM	12871	CA	ILE	G	606	77.593	83.055	25.180	1.00	79.89	G
ATOM	12872	CB	ILE	G	606	76.939	82.510	23.869	1.00	100.07	G
ATOM	12873	CG2	ILE	G	606	75.871	81.453	24.176	1.00	100.07	G
ATOM	12874	CG1	ILE	G	606	76.303	83.677	23.097	1.00	100.07	G
ATOM	12875	CD	ILE	G	606	75.043	84.258	23.735	1.00	100.07	G
ATOM	12876	C	ILE	G	606	77.957	81.949	26.158	1.00	79.89	G
ATOM	12877	O	ILE	G	606	77.261	80.954	26.335	1.00	79.89	G
ATOM	12878	N	LEU	G	607	79.106	82.163	26.778	1.00	76.14	G
ATOM	12879	CA	LEU	G	607	79.642	81.280	27.788	1.00	76.14	G
ATOM	12880	CB	LEU	G	607	80.797	80.465	27.220	1.00	92.61	G
ATOM	12881	CG	LEU	G	607	80.428	79.479	26.116	1.00	92.61	G
ATOM	12882	CD1	LEU	G	607	81.671	78.738	25.679	1.00	92.61	G
ATOM	12883	CD2	LEU	G	607	79.387	78.497	26.625	1.00	92.61	G
ATOM	12884	C	LEU	G	607	80.137	82.259	28.842	1.00	76.14	G
ATOM	12885	O	LEU	G	607	80.842	83.221	28.517	1.00	76.14	G
ATOM	12886	N	SER	G	608	79.750	82.037	30.095	1.00	84.73	G
ATOM	12887	CA	SER	G	608	80.141	82.940	31.172	1.00	84.73	G
ATOM	12888	CB	SER	G	608	81.635	83.266	31.069	1.00	72.65	G
ATOM	12889	OG	SER	G	608	82.397	82.079	30.879	1.00	72.65	G
ATOM	12890	C	SER	G	608	79.304	84.216	31.040	1.00	84.73	G
ATOM	12891	O	SER	G	608	78.362	84.429	31.802	1.00	84.73	G
ATOM	12892	N	GLY	G	609	79.646	85.043	30.059	1.00	48.23	G
ATOM	12893	CA	GLY	G	609	78.925	86.281	29.814	1.00	48.23	G
ATOM	12894	C	GLY	G	609	77.513	86.397	30.366	1.00	48.23	G
ATOM	12895	O	GLY	G	609	77.331	86.581	31.564	1.00	48.23	G
ATOM	12896	N	LYS	G	610	76.507	86.298	29.500	1.00	100.07	G
ATOM	12897	CA	LYS	G	610	75.108	86.425	29.925	1.00	100.07	G
ATOM	12898	CB	LYS	G	610	74.213	86.723	28.715	1.00	100.07	G

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ATOM	12899	CG	LYS	G	610	74.583	87.986	27.951	1.00100.07	G
ATOM	12900	CD	LYS	G	610	73.938	87.997	26.574	1.00100.07	G
ATOM	12901	CE	LYS	G	610	74.635	88.981	25.643	1.00100.07	G
ATOM	12902	NZ	LYS	G	610	74.195	88.837	24.221	1.00100.07	G
ATOM	12903	C	LYS	G	610	74.595	85.177	30.636	1.00100.07	G
ATOM	12904	O	LYS	G	610	75.364	84.488	31.306	1.00100.07	G
ATOM	12905	N	GLN	G	611	73.292	84.913	30.492	1.00 54.57	G
ATOM	12906	CA	GLN	G	611	72.633	83.749	31.091	1.00 54.57	G
ATOM	12907	CB	GLN	G	611	71.281	83.493	30.403	1.00100.07	G
ATOM	12908	CG	GLN	G	611	70.109	84.395	30.833	1.00100.07	G
ATOM	12909	CD	GLN	G	611	68.775	84.030	30.135	1.00100.07	G
ATOM	12910	OE1	GLN	G	611	68.389	82.852	30.066	1.00100.07	G
ATOM	12911	NE2	GLN	G	611	68.068	85.046	29.630	1.00100.07	G
ATOM	12912	C	GLN	G	611	73.497	82.493	30.950	1.00 54.57	G
ATOM	12913	O	GLN	G	611	73.199	81.624	30.143	1.00 54.57	G
ATOM	12914	N	GLY	G	612	74.563	82.384	31.734	1.00 79.93	G
ATOM	12915	CA	GLY	G	612	75.406	81.212	31.617	1.00 79.93	G
ATOM	12916	C	GLY	G	612	76.576	81.115	32.575	1.00 79.93	G
ATOM	12917	O	GLY	G	612	76.977	82.086	33.224	1.00 79.93	G
ATOM	12918	N	ALA	G	613	77.120	79.906	32.652	1.00100.07	G
ATOM	12919	CA	ALA	G	613	78.257	79.598	33.502	1.00100.07	G
ATOM	12920	CB	ALA	G	613	79.524	80.187	32.898	1.00100.07	G
ATOM	12921	C	ALA	G	613	78.088	80.076	34.938	1.00100.07	G
ATOM	12922	O	ALA	G	613	77.578	79.344	35.787	1.00100.07	G
ATOM	12923	N	PHE	G	614	78.507	81.305	35.212	1.00 68.46	G
ATOM	12924	CA	PHE	G	614	78.421	81.825	36.566	1.00 68.46	G
ATOM	12925	CB	PHE	G	614	79.486	82.911	36.783	1.00 49.59	G
ATOM	12926	CG	PHE	G	614	80.898	82.426	36.598	1.00 49.59	G
ATOM	12927	CD1	PHE	G	614	81.682	82.912	35.556	1.00 49.59	G
ATOM	12928	CD2	PHE	G	614	81.421	81.450	37.432	1.00 49.59	G
ATOM	12929	CE1	PHE	G	614	82.963	82.429	35.342	1.00 49.59	G
ATOM	12930	CE2	PHE	G	614	82.698	80.958	37.231	1.00 49.59	G
ATOM	12931	CZ	PHE	G	514	83.473	81.446	36.181	1.00 49.59	G
ATOM	12932	C	PHE	G	614	77.051	82.361	36.971	1.00 68.46	G
ATOM	12933	O	PHE	G	614	76.956	83.193	37.874	1.00 68.46	G
ATOM	12934	N	ARG	G	615	75.987	81.891	36.325	1.00 38.15	G
ATOM	12935	CA	ARG	G	615	74.654	82.366	36.684	1.00 38.15	G
ATOM	12936	CB	ARG	G	615	74.219	83.507	35.768	1.00 68.40	G
ATOM	12937	CG	ARG	G	615	75.299	84.538	35.494	1.00 68.40	G
ATOM	12938	CD	ARG	G	615	74.687	85.884	35.161	1.00 68.40	G
ATOM	12939	NE	ARG	G	615	75.519	86.690	34.277	1.00 68.40	G
ATOM	12940	CZ	ARG	G	615	75.282	87.967	34.014	1.00 68.40	G
ATOM	12941	NH1	ARG	G	615	74.246	88.576	34.575	1.00 68.40	G
ATOM	12942	NH2	ARG	G	615	76.065	88.628	33.177	1.00 68.40	G
ATOM	12943	C	ARG	G	615	73.602	81.274	36.644	1.00 38.15	G
ATOM	12944	O	ARG	G	615	72.761	81.188	37.527	1.00 38.15	G
ATOM	12945	N	GLN	G	616	73.640	80.428	35.628	1.00 41.80	G
ATOM	12946	CA	GLN	G	616	72.637	79.385	35.554	1.00 41.80	G
ATOM	12947	CB	GLN	G	616	72.773	78.585	34.258	1.00100.07	G
ATOM	12948	CG	GLN	G	616	71.518	77.788	33.932	1.00100.07	G
ATOM	12949	CD	GLN	G	616	71.433	77.401	32.474	1.00100.07	G
ATOM	12950	OE1	GLN	G	616	71.313	78.256	31.595	1.00100.07	G
ATOM	12951	NE2	GLN	G	616	71.495	76.103	32.205	1.00100.07	G
ATOM	12952	C	GLN	G	616	72.663	78.458	36.767	1.00 41.80	G
ATOM	12953	O	GLN	G	616	73.230	77.369	36.761	1.00 41.80	G
ATOM	12954	N	ASN	G	617	72.016	78.934	37.811	1.00 41.52	G
ATOM	12955	CA	ASN	G	617	71.875	78.241	39.071	1.00 41.52	G
ATOM	12956	CB	ASN	G	617	73.228	77.840	39.654	1.00 55.01	G
ATOM	12957	CG	ASN	G	617	73.694	76.488	39.157	1.00 55.01	G
ATOM	12958	OD1	ASN	G	617	73.027	75.480	39.347	1.00 55.01	G
ATOM	12959	ND2	ASN	G	617	74.845	76.464	38.518	1.00 55.01	G
ATOM	12960	C	ASN	G	617	71.207	79.306	39.907	1.00 41.52	G
ATOM	12961	O	ASN	G	617	70.217	79.053	40.591	1.00 41.52	G
ATOM	12962	N	LEU	G	618	71.756	80.511	39.832	1.00 38.70	G
ATOM	12963	CA	LEU	G	618	71.167	81.630	40.526	1.00 38.70	G
ATOM	12964	CB	LEU	G	618	71.997	82.889	40.295	1.00 19.94	G
ATOM	12965	CG	LEU	G	618	73.466	82.736	40.713	1.00 19.94	G
ATOM	12966	CD1	LEU	G	618	74.257	83.963	40.314	1.00 19.94	G
ATOM	12967	CD2	LEU	G	618	73.555	82.490	42.228	1.00 19.94	G
ATOM	12968	C	LEU	G	618	69.863	81.673	39.749	1.00 38.70	G
ATOM	12969	O	LEU	G	618	68.925	80.969	40.102	1.00 38.70	G
ATOM	12970	N	LEU	G	619	69.808	82.449	38.672	1.00 99.98	G
ATOM	12971	CA	LEU	G	619	68.598	82.510	37.855	1.00 99.98	G
ATOM	12972	CB	LEU	G	619	68.928	83.021	36.454	1.00 43.46	G
ATOM	12973	CG	LEU	G	619	69.107	84.510	36.169	1.00 43.46	G
ATOM	12974	CD1	LEU	G	619	70.027	85.128	37.195	1.00 43.46	G
ATOM	12975	CD2	LEU	G	619	69.651	84.684	34.748	1.00 43.46	G
ATOM	12976	C	LEU	G	619	67.958	81.121	37.738	1.00 99.98	G
ATOM	12977	O	LEU	G	619	68.639	80.132	37.466	1.00 99.98	G
ATOM	12978	N	GLY	G	620	66.645	81.076	37.944	1.00 79.93	G
ATOM	12979	CA	GLY	G	620	65.859	79.849	37.884	1.00 79.93	G
ATOM	12980	C	GLY	G	620	66.407	78.473	37.513	1.00 79.93	G
ATOM	12981	O	GLY	G	620	67.469	78.050	37.976	1.00 79.93	G
ATOM	12982	N	LYS	G	621	65.613	77.781	36.691	1.00 72.90	G

12983 12984 12985 12986 12987 12988 12989 12990 12991 12992 12993 12994 12995 12996 12997 12998 12999 13000 13001 13002 13003 13004 13005 13006 13007 13008 13009 13010 13011 13012 13013 13014 13015 13016 13017 13018 13019 13020 13021 13022 13023 13024 13025 13026 13027 13028 13029 13030 13031 13032 13033 13034 13035 13036 13037 13038 13039 13040 13041 13042 13043 13044 13045 13046 13047 13048 13049 13050 13051 13052 13053 13054 13055 13056 13057 13058 13059 13060 13061 13062 13063 13064 13065 13066

ATOM	12983	CA	LYS	G	621	65.844	76.429	36.169	1.00	72.90	G
ATOM	12984	CB	LYS	G	621	66.924	75.690	36.958	1.00	46.06	G
ATOM	12985	CG	LYS	G	621	68.324	75.911	36.404	1.00	46.06	G
ATOM	12986	CD	LYS	G	621	69.330	74.976	37.067	1.00	46.06	G
ATOM	12987	CE	LYS	G	621	70.722	75.151	36.490	1.00	46.06	G
ATOM	12988	NZ	LYS	G	621	71.698	74.369	37.268	1.00	46.06	G
ATOM	12989	C	LYS	G	621	64.526	75.652	36.235	1.00	72.90	G
ATOM	12990	O	LYS	G	621	63.762	75.803	37.184	1.00	72.90	G
ATOM	12991	N	ARG	G	522	64.261	74.829	35.226	1.00	28.55	G
ATOM	12992	CA	ARG	G	622	63.023	74.059	35.150	1.00	28.55	G
ATOM	12993	CB	ARG	G	622	62.770	73.590	33.711	1.00	99.38	G
ATOM	12994	CG	ARG	G	622	62.745	74.693	32.676	1.00	99.38	G
ATOM	12995	CD	ARG	G	622	61.448	75.469	32.695	1.00	99.38	G
ATOM	12996	NE	ARG	G	622	61.630	76.827	32.187	1.00	99.38	G
ATOM	12997	CZ	ARG	G	622	60.653	77.721	32.056	1.00	99.38	G
ATOM	12998	NH1	ARG	G	622	59.407	77.403	32.392	1.00	99.38	G
ATOM	12999	NH2	ARG	G	622	60.924	78.942	31.603	1.00	99.38	G
ATOM	13000	C	ARG	G	622	62.947	72.843	36.063	1.00	28.55	G
ATOM	13001	O	ARG	G	622	63.176	71.720	35.616	1.00	28.55	G
ATOM	13002	N	VAL	G	623	62.617	73.056	37.333	1.00	29.29	G
ATOM	13003	CA	VAL	G	623	62.469	71.937	38.259	1.00	29.29	G
ATOM	13004	CB	VAL	G	623	61.667	72.327	39.512	1.00	100.07	G
ATOM	13005	CG1	VAL	G	623	61.412	71.093	40.369	1.00	100.07	G
ATOM	13006	CG2	VAL	G	623	62.424	73.368	40.310	1.00	100.07	G
ATOM	13007	C	VAL	G	623	61.695	70.838	37.530	1.00	29.29	G
ATOM	13008	O	VAL	G	623	60.690	71.092	36.852	1.00	29.29	G
ATOM	13009	N	ASP	G	624	62.155	69.608	37.676	1.00	89.28	G
ATOM	13010	CA	ASP	G	624	61.512	68.520	36.983	1.00	89.28	G
ATOM	13011	CB	ASP	G	624	62.571	67.568	36.447	1.00	70.43	G
ATOM	13012	CG	ASP	G	624	62.035	66.655	35.383	1.00	70.43	G
ATOM	13013	OD1	ASP	G	624	61.474	67.173	34.395	1.00	70.43	G
ATOM	13014	OD2	ASP	G	624	62.176	65.424	35.536	1.00	70.43	G
ATOM	13015	C	ASP	G	624	60.500	67.755	37.812	1.00	89.28	G
ATOM	13016	O	ASP	G	624	60.294	66.569	37.589	1.00	89.28	G
ATOM	13017	N	TYR	G	625	59.864	68.421	38.765	1.00	78.71	G
ATOM	13018	CA	TYR	G	625	58.857	67.755	39.581	1.00	78.71	G
ATOM	13019	CB	TYR	G	625	59.495	67.007	40.746	1.00	49.45	G
ATOM	13020	CG	TYR	G	625	59.741	65.537	40.492	1.00	49.45	G
ATOM	13021	CD1	TYR	G	625	60.922	65.105	39.900	1.00	49.45	G
ATOM	13022	CE1	TYR	G	625	61.157	63.763	39.675	1.00	49.45	G
ATOM	13023	CD2	TYR	G	625	58.796	64.579	40.851	1.00	49.45	G
ATOM	13024	CE2	TYR	G	625	59.023	63.240	40.627	1.00	49.45	G
ATOM	13025	CZ	TYR	G	625	60.204	62.842	40.039	1.00	49.45	G
ATOM	13026	OH	TYR	G	625	60.451	61.519	39.797	1.00	49.45	G
ATOM	13027	C	TYR	G	625	57.866	68.744	40.141	1.00	78.71	G
ATOM	13028	O	TYR	G	625	57.678	68.815	41.354	1.00	78.71	G
ATOM	13029	N	SER	G	626	57.205	69.494	39.274	1.00	28.63	G
ATOM	13030	CA	SER	G	626	56.278	70.479	39.772	1.00	28.63	G
ATOM	13031	CB	SER	G	626	57.018	71.788	39.975	1.00	100.07	G
ATOM	13032	OG	SER	G	626	56.115	72.867	39.840	1.00	100.07	G
ATOM	13033	C	SER	G	626	55.033	70.769	38.969	1.00	28.63	G
ATOM	13034	O	SER	G	626	55.021	70.673	37.750	1.00	28.63	G
ATOM	13035	N	GLY	G	627	53.985	71.161	39.676	1.00	90.30	G
ATOM	13036	CA	GLY	G	627	52.740	71.523	39.030	1.00	90.30	G
ATOM	13037	C	GLY	G	627	52.401	72.899	39.566	1.00	90.30	G
ATOM	13038	O	GLY	G	627	53.085	73.379	40.468	1.00	90.30	G
ATOM	13039	N	ARG	G	628	51.374	73.547	39.030	1.00	16.46	G
ATOM	13040	CA	ARG	G	628	51.002	74.861	39.530	1.00	16.46	G
ATOM	13041	CB	ARG	G	628	52.085	75.890	39.206	1.00	93.47	G
ATOM	13042	CG	ARG	G	628	52.472	75.980	37.757	1.00	93.47	G
ATOM	13043	CD	ARG	G	628	52.690	77.424	37.386	1.00	93.47	G
ATOM	13044	NE	ARG	G	628	51.798	77.813	36.304	1.00	93.47	G
ATOM	13045	CZ	ARG	G	628	51.437	79.063	36.042	1.00	93.47	G
ATOM	13046	NH1	ARG	G	628	51.893	80.055	36.795	1.00	93.47	G
ATOM	13047	NH2	ARG	G	628	50.622	79.319	35.024	1.00	93.47	G
ATOM	13048	C	ARG	G	628	49.668	75.315	38.981	1.00	16.46	G
ATOM	13049	O	ARG	G	628	49.501	75.456	37.779	1.00	16.46	G
ATOM	13050	N	SER	G	629	48.709	75.548	39.867	1.00	25.34	G
ATOM	13051	CA	SER	G	629	47.382	75.965	39.440	1.00	25.34	G
ATOM	13052	CB	SER	G	629	46.411	74.800	39.566	1.00	100.07	G
ATOM	13053	OG	SER	G	629	45.122	75.168	39.115	1.00	100.07	G
ATOM	13054	C	SER	G	629	46.881	77.105	40.296	1.00	25.34	G
ATOM	13055	O	SER	G	629	47.650	77.709	41.052	1.00	25.34	G
ATOM	13056	N	VAL	G	630	45.584	77.384	40.179	1.00	11.98	G
ATOM	13057	CA	VAL	G	630	44.963	78.441	40.953	1.00	11.98	G
ATOM	13058	CB	VAL	G	630	43.650	78.871	40.364	1.00	7.52	G
ATOM	13059	CG1	VAL	G	630	43.026	79.925	41.270	1.00	7.52	G
ATOM	13060	CG2	VAL	G	630	43.858	79.409	38.988	1.00	7.52	G
ATOM	13061	C	VAL	G	630	44.694	78.052	42.403	1.00	11.98	G
ATOM	13062	O	VAL	G	630	44.238	76.951	42.716	1.00	11.98	G
ATOM	13063	N	ILE	G	631	44.960	78.995	43.286	1.00	34.03	G
ATOM	13064	CA	ILE	G	631	44.779	78.766	44.692	1.00	34.03	G
ATOM	13065	CB	ILE	G	631	45.829	79.585	45.471	1.00	68.49	G
ATOM	13066	CG2	ILE	G	631	45.325	79.983	46.820	1.00	68.49	G

ATOM	13067	CG1	ILE	G	631	47.086	78.742	45.631	1.00	68.49	G
ATOM	13068	CD	ILE	G	631	47.489	78.004	44.373	1.00	68.49	G
ATOM	13069	C	ILE	G	631	43.360	79.093	45.118	1.00	34.03	G
ATOM	13070	O	ILE	G	631	42.682	79.928	44.500	1.00	34.03	G
ATOM	13071	N	VAL	G	632	42.914	78.390	46.159	1.00	34.74	G
ATOM	13072	CA	VAL	G	632	41.587	78.552	46.738	1.00	34.74	G
ATOM	13073	CB	VAL	G	632	40.559	77.618	46.049	1.00	9.48	G
ATOM	13074	CG1	VAL	G	632	39.632	77.010	47.063	1.00	9.48	G
ATOM	13075	CG2	VAL	G	632	39.744	78.401	45.048	1.00	9.48	G
ATOM	13076	C	VAL	G	632	41.643	78.249	48.238	1.00	34.74	G
ATOM	13077	O	VAL	G	632	42.370	77.353	48.694	1.00	34.74	G
ATOM	13078	N	VAL	G	633	40.878	79.025	48.999	1.00	18.50	G
ATOM	13079	CA	VAL	G	633	40.798	78.870	50.436	1.00	18.50	G
ATOM	13080	CB	VAL	G	633	40.042	80.021	51.044	1.00	35.16	G
ATOM	13081	CG1	VAL	G	633	38.677	80.106	50.397	1.00	35.16	G
ATOM	13082	CG2	VAL	G	633	39.890	79.807	52.539	1.00	35.16	G
ATOM	13083	C	VAL	G	633	40.022	77.609	50.789	1.00	18.50	G
ATOM	13084	O	VAL	G	633	39.194	77.123	50.008	1.00	18.50	G
ATOM	13085	N	GLY	G	634	40.275	77.100	51.988	1.00	15.10	G
ATOM	13086	CA	GLY	G	634	39.578	75.923	52.465	1.00	15.10	G
ATOM	13087	C	GLY	G	634	40.061	75.554	53.850	1.00	15.10	G
ATOM	13088	O	GLY	G	634	41.266	75.446	54.061	1.00	15.10	G
ATOM	13089	N	PRO	G	635	39.159	75.386	54.821	1.00	29.71	G
ATOM	13090	CD	PRO	G	635	37.763	75.838	54.812	1.00	61.92	G
ATOM	13091	CA	PRO	G	635	39.576	75.018	56.177	1.00	29.71	G
ATOM	13092	CB	PRO	G	635	38.283	75.107	56.967	1.00	61.92	G
ATOM	13093	CG	PRO	G	635	37.552	76.173	56.259	1.00	61.92	G
ATOM	13094	C	PRO	G	635	40.189	73.602	56.224	1.00	29.71	G
ATOM	13095	O	PRO	G	635	39.640	72.686	56.846	1.00	29.71	G
ATOM	13096	N	ALA	G	636	41.319	73.424	55.538	1.00	69.68	G
ATOM	13097	CA	ALA	G	636	42.032	72.145	55.509	1.00	69.68	G
ATOM	13098	CB	ALA	G	636	43.073	72.138	54.341	1.00	5.07	G
ATOM	13099	C	ALA	G	636	42.729	72.080	56.866	1.00	69.68	G
ATOM	13100	O	ALA	G	636	42.862	73.110	57.514	1.00	69.68	G
ATOM	13101	N	ALA	G	637	43.151	70.900	57.316	1.00	64.90	G
ATOM	13102	CA	ALA	G	637	43.832	70.815	58.614	1.00	64.90	G
ATOM	13103	CB	ALA	G	637	44.521	69.484	58.788	1.00	100.07	G
ATOM	13104	C	ALA	G	637	44.850	71.928	58.601	1.00	64.90	G
ATOM	13105	O	ALA	G	637	45.944	71.792	58.055	1.00	64.90	G
ATOM	13106	N	ALA	G	638	44.456	73.044	59.190	1.00	92.94	G
ATOM	13107	CA	ALA	G	638	45.288	74.218	59.222	1.00	92.94	G
ATOM	13108	CB	ALA	G	638	45.005	75.022	60.440	1.00	25.01	G
ATOM	13109	C	ALA	G	638	46.753	73.911	59.166	1.00	92.94	G
ATOM	13110	O	ALA	G	638	47.239	72.985	59.814	1.00	92.94	G
ATOM	13111	N	LEU	G	639	47.445	74.708	58.367	1.00	63.12	G
ATOM	13112	CA	LEU	G	639	48.878	74.610	58.210	1.00	63.12	G
ATOM	13113	CB	LEU	G	639	49.560	75.097	59.496	1.00	30.13	G
ATOM	13114	CG	LEU	G	639	48.719	75.720	60.625	1.00	30.13	G
ATOM	13115	CD1	LEU	G	639	49.628	76.005	61.813	1.00	30.13	G
ATOM	13116	CD2	LEU	G	639	48.040	76.992	60.159	1.00	30.13	G
ATOM	13117	C	LEU	G	639	49.310	73.189	57.908	1.00	63.12	G
ATOM	13118	O	LEU	G	639	49.639	72.838	56.783	1.00	63.12	G
ATOM	13119	N	HIS	G	640	49.308	72.381	58.947	1.00	58.21	G
ATOM	13120	CA	HIS	G	640	49.691	71.000	58.872	1.00	58.21	G
ATOM	13121	CB	HIS	G	640	49.015	70.275	60.019	1.00	83.80	G
ATOM	13122	CG	HIS	G	640	49.760	69.077	60.489	1.00	83.80	G
ATOM	13123	CD2	HIS	G	640	49.334	67.944	61.087	1.00	83.80	G
ATOM	13124	ND1	HIS	G	640	51.132	68.988	60.422	1.00	83.80	G
ATOM	13125	CE1	HIS	G	640	51.521	67.847	60.962	1.00	83.80	G
ATOM	13126	NE2	HIS	G	640	50.451	67.195	61.376	1.00	83.80	G
ATOM	13127	C	HIS	G	640	49.422	70.253	57.556	1.00	58.21	G
ATOM	13128	O	HIS	G	640	49.986	69.181	57.359	1.00	58.21	G
ATOM	13129	N	GLN	G	641	48.592	70.787	56.652	1.00	37.38	G
ATOM	13130	CA	GLN	G	641	48.288	70.069	55.407	1.00	37.38	G
ATOM	13131	CB	GLN	G	641	46.961	69.326	55.561	1.00	45.66	G
ATOM	13132	CG	GLN	G	641	46.911	68.476	56.831	1.00	45.66	G
ATOM	13133	CD	GLN	G	641	45.771	67.479	56.865	1.00	45.66	G
ATOM	13134	OE1	GLN	G	641	44.609	67.828	56.636	1.00	45.66	G
ATOM	13135	NE2	GLN	G	641	46.101	66.224	57.172	1.00	45.66	G
ATOM	13136	C	GLN	G	641	48.259	70.931	54.158	1.00	37.38	G
ATOM	13137	O	GLN	G	641	48.869	71.982	54.139	1.00	37.38	G
ATOM	13138	N	CYS	G	642	47.546	70.501	53.116	1.00	91.93	G
ATOM	13139	CA	CYS	G	642	47.514	71.262	51.863	1.00	91.93	G
ATOM	13140	CB	CYS	G	642	48.696	70.842	50.997	1.00	28.38	G
ATOM	13141	SG	CYS	G	642	48.976	71.902	49.585	1.00	28.38	G
ATOM	13142	C	CYS	G	642	46.235	71.165	51.027	1.00	91.93	G
ATOM	13143	O	CYS	G	642	45.134	71.169	51.570	1.00	91.93	G
ATOM	13144	N	GLY	G	643	46.406	71.092	49.702	1.00	24.53	G
ATOM	13145	CA	GLY	G	643	45.296	71.008	48.753	1.00	24.53	G
ATOM	13146	C	GLY	G	643	45.601	70.019	47.634	1.00	24.53	G
ATOM	13147	O	GLY	G	643	45.687	68.822	47.901	1.00	24.53	G
ATOM	13148	N	LEU	G	644	45.768	70.490	46.394	1.00	40.04	G
ATOM	13149	CA	LEU	G	644	46.078	69.603	45.251	1.00	40.04	G
ATOM	13150	CB	LEU	G	644	47.129	68.551	45.622	1.00	19.81	G

ATOM	13151	CG	LEU	G	644	48.596	68.886	45.827	1.00	19.81	G
ATOM	13152	CD1	LEU	G	644	48.763	69.685	47.086	1.00	19.81	G
ATOM	13153	CD2	LEU	G	644	49.379	67.595	45.946	1.00	19.81	G
ATOM	13154	C	LEU	G	644	44.914	68.828	44.635	1.00	40.04	G
ATOM	13155	O	LEU	G	644	44.300	67.997	45.296	1.00	40.04	G
ATOM	13156	N	PRO	G	645	44.626	69.049	43.348	1.00	38.50	G
ATOM	13157	CD	PRO	G	645	45.406	69.783	42.347	1.00	17.71	G
ATOM	13158	CA	PRO	G	645	43.521	68.314	42.720	1.00	38.50	G
ATOM	13159	CB	PRO	G	645	43.562	68.775	41.268	1.00	17.71	G
ATOM	13160	CG	PRO	G	645	44.372	70.066	41.310	1.00	17.71	G
ATOM	13161	C	PRO	G	645	43.922	66.858	42.831	1.00	38.50	G
ATOM	13162	O	PRO	G	645	45.116	66.567	42.882	1.00	38.50	G
ATOM	13163	N	LYS	G	646	42.973	65.932	42.865	1.00	80.83	G
ATOM	13164	CA	LYS	G	646	43.392	64.546	42.979	1.00	80.83	G
ATOM	13165	CB	LYS	G	646	42.257	63.646	43.454	1.00	39.56	G
ATOM	13166	CG	LYS	G	646	41.140	63.342	42.490	1.00	39.56	G
ATOM	13167	CD	LYS	G	646	40.197	62.424	43.240	1.00	39.56	G
ATOM	13168	CE	LYS	G	646	39.155	61.766	42.373	1.00	39.56	G
ATOM	13169	NZ	LYS	G	646	38.444	60.697	43.168	1.00	39.56	G
ATOM	13170	C	LYS	G	646	43.918	64.084	41.650	1.00	80.83	G
ATOM	13171	O	LYS	G	646	43.965	62.902	41.358	1.00	80.83	G
ATOM	13172	N	ARG	G	647	44.316	65.051	40.844	1.00	49.85	G
ATOM	13173	CA	ARG	G	647	44.868	64.794	39.534	1.00	49.85	G
ATOM	13174	CB	ARG	G	647	44.283	65.796	38.543	1.00	99.57	G
ATOM	13175	CG	ARG	G	647	44.334	65.362	37.102	1.00	99.57	G
ATOM	13176	CD	ARG	G	647	43.502	64.113	36.879	1.00	99.57	G
ATOM	13177	NE	ARG	G	647	43.402	63.777	35.460	1.00	99.57	G
ATOM	13178	CZ	ARG	G	647	42.906	62.634	34.990	1.00	99.57	G
ATOM	13179	NH1	ARG	G	647	42.461	61.700	35.828	1.00	99.57	G
ATOM	13180	NH2	ARG	G	647	42.859	62.427	33.677	1.00	99.57	G
ATOM	13181	C	ARG	G	647	46.367	65.015	39.710	1.00	49.85	G
ATOM	13182	O	ARG	G	647	47.125	64.056	39.787	1.00	49.85	G
ATOM	13183	N	MET	G	648	46.763	66.289	39.816	1.00	29.00	G
ATOM	13184	CA	MET	G	548	48.156	66.717	39.993	1.00	29.00	G
ATOM	13185	CB	MET	G	648	48.243	68.102	40.649	1.00	30.28	G
ATOM	13186	CG	MET	G	648	47.489	69.223	39.953	1.00	30.28	G
ATOM	13187	SD	MET	G	648	48.145	70.888	40.324	1.00	30.28	G
ATOM	13188	CE	MET	G	648	48.852	70.663	41.989	1.00	30.28	G
ATOM	13189	C	MET	G	648	48.936	65.761	40.858	1.00	29.00	G
ATOM	13190	O	MET	G	648	50.023	65.337	40.484	1.00	29.00	G
ATOM											

ATOM	13403	CG	MET	G	676	46.249	49.693	35.088	1.00	58.41	G
ATOM	13404	SD	MET	G	676	46.864	48.497	36.277	1.00	58.41	G
ATOM	13405	CE	MET	G	676	47.491	47.222	35.162	1.00	58.41	G
ATOM	13406	C	MET	G	676	46.637	52.314	33.486	1.00	87.94	G
ATOM	13407	O	MET	G	676	45.482	52.403	33.896	1.00	87.94	G
ATOM	13408	N	LEU	G	677	47.457	53.360	33.393	1.00	72.25	G
ATOM	13409	CA	LEU	G	677	47.018	54.712	33.724	1.00	72.25	G
ATOM	13410	CB	LEU	G	677	48.045	55.446	34.594	1.00	26.85	G
ATOM	13411	CG	LEU	G	677	48.854	54.754	35.700	1.00	26.85	G
ATOM	13412	CD1	LEU	G	677	49.709	55.787	36.404	1.00	26.85	G
ATOM	13413	CD2	LEU	G	677	47.952	54.080	36.701	1.00	26.85	G
ATOM	13414	C	LEU	G	677	46.913	55.434	32.391	1.00	72.25	G
ATOM	13415	O	LEU	G	677	46.217	56.441	32.261	1.00	72.25	G
ATOM	13416	N	GLU	G	678	47.622	54.896	31.401	1.00	100.07	G
ATOM	13417	CA	GLU	G	678	47.658	55.455	30.050	1.00	100.07	G
ATOM	13418	CB	GLU	G	678	48.872	54.905	29.279	1.00	100.07	G
ATOM	13419	CG	GLU	G	678	49.657	55.956	28.480	1.00	100.07	G
ATOM	13420	CD	GLU	G	678	51.005	56.308	29.110	1.00	100.07	G
ATOM	13421	OE1	GLU	G	678	51.886	55.422	29.158	1.00	100.07	G
ATOM	13422	OE2	GLU	G	678	51.186	57.467	29.554	1.00	100.07	G
ATOM	13423	C	GLU	G	678	46.376	55.186	29.246	1.00	100.07	G
ATOM	13424	O	GLU	G	678	46.371	55.317	28.019	1.00	100.07	G
ATOM	13425	N	ARG	G	679	45.296	54.799	29.924	1.00	100.07	G
ATOM	13426	CA	ARG	G	679	44.024	54.567	29.239	1.00	100.07	G
ATOM	13427	CB	ARG	G	679	43.046	53.833	30.171	1.00	100.07	G
ATOM	13428	CG	ARG	G	679	41.582	53.754	29.693	1.00	100.07	G
ATOM	13429	CD	ARG	G	679	41.419	53.023	28.359	1.00	100.07	G
ATOM	13430	NE	ARG	G	679	40.018	52.701	28.074	1.00	100.07	G
ATOM	13431	CZ	ARG	G	679	39.603	52.017	27.008	1.00	100.07	G
ATOM	13432	NH1	ARG	G	679	40.480	51.579	26.111	1.00	100.07	G
ATOM	13433	NH2	ARG	G	679	38.311	51.751	26.845	1.00	100.07	G
ATOM	13434	C	ARG	G	679	43.501	55.963	28.895	1.00	100.07	G
ATOM	13435	O	ARG	G	679	42.337	56.143	28.538	1.00	100.07	G
ATOM	13436	N	GLN	G	680	44.406	56.937	29.010	1.00	100.07	G
ATOM	13437	CA	GLN	G	680	44.164	58.358	28.764	1.00	100.07	G
ATOM	13438	CB	GLN	G	680	43.680	58.597	27.316	1.00	100.07	G
ATOM	13439	CG	GLN	G	680	42.222	58.264	27.005	1.00	100.07	G
ATOM	13440	CD	GLN	G	680	41.919	58.299	25.507	1.00	100.07	G
ATOM	13441	OE1	GLN	G	680	42.237	59.273	24.820	1.00	100.07	G
ATOM	13442	NE2	GLN	G	680	41.300	57.235	25.000	1.00	100.07	G
ATOM	13443	C	GLN	G	680	43.185	58.926	29.796	1.00	100.07	G
ATOM	13444	O	GLN	G	680	43.281	60.099	30.181	1.00	100.07	G
ATOM	13445	N	ARG	G	681	42.273	58.065	30.257	1.00	100.07	G
ATOM	13446	CA	ARG	G	681	41.253	58.394	31.261	1.00	100.07	G
ATOM	13447	CB	ARG	G	681	40.134	59.242	30.630	1.00	100.07	G
ATOM	13448	CG	ARG	G	681	40.583	60.631	30.171	1.00	100.07	G
ATOM	13449	CD	ARG	G	681	39.496	61.380	29.411	1.00	100.07	G
ATOM	13450	NE	ARG	G	681	39.821	62.800	29.260	1.00	100.07	G
ATOM	13451	CZ	ARG	G	681	38.950	63.737	28.885	1.00	100.07	G
ATOM	13452	NH1	ARG	G	681	37.690	63.404	28.614	1.00	100.07	G
ATOM	13453	NH2	ARG	G	681	39.328	65.012	28.801	1.00	100.07	G
ATOM	13454	C	ARG	G	681	40.662	57.090	31.834	1.00	100.07	G
ATOM	13455	O	ARG	G	681	40.220	56.226	31.072	1.00	100.07	G
ATOM	13456	N	ASP	G	682	40.690	56.962	33.166	1.00	70.65	G
ATOM	13457	CA	ASP	G	682	40.167	55.807	33.927	1.00	70.65	G
ATOM	13458	CB	ASP	G	682	39.532	54.752	33.021	1.00	100.07	G
ATOM	13459	CG	ASP	G	682	38.153	55.148	32.556	1.00	100.07	G
ATOM	13460	OD1	ASP	G	682	37.364	55.607	33.412	1.00	100.07	G
ATOM	13461	OD2	ASP	G	682	37.859	54.995	31.347	1.00	100.07	G
ATOM	13462	C	ASP	G	682	41.162	55.100	34.834	1.00	70.65	G
ATOM	13463	O	ASP	G	682	42.155	54.538	34.378	1.00	70.65	G
ATOM	13464	N	ILE	G	683	40.865	55.135	36.129	1.00	38.32	G
ATOM	13465	CA	ILE	G	683	41.675	54.505	37.170	1.00	38.32	G
ATOM	13466	CB	ILE	G	683	42.678	55.479	37.791	1.00	59.54	G
ATOM	13467	CG2	ILE	G	683	43.507	54.751	38.799	1.00	59.54	G
ATOM	13468	CG1	ILE	G	683	43.550	56.133	36.717	1.00	59.54	G
ATOM	13469	CD	ILE	G	683	42.934	57.366	36.061	1.00	59.54	G
ATOM	13470	C	ILE	G	683	40.665	54.180	38.253	1.00	38.32	G
ATOM	13471	O	ILE	G	683	40.248	55.070	38.993	1.00	38.32	G
ATOM	13472	N	LYS	G	684	40.246	52.928	38.354	1.00	43.89	G
ATOM	13473	CA	LYS	G	684	39.251	52.618	39.364	1.00	43.89	G
ATOM	13474	CB	LYS	G	684	38.720	51.190	39.205	1.00	78.47	G
ATOM	13475	CG	LYS	G	684	37.257	51.070	39.599	1.00	78.47	G
ATOM	13476	CD	LYS	G	684	36.910	49.691	40.121	1.00	78.47	G
ATOM	13477	CE	LYS	G	684	35.516	49.689	40.748	1.00	78.47	G
ATOM	13478	NZ	LYS	G	684	35.209	48.429	41.497	1.00	78.47	G
ATOM	13479	C	LYS	G	684	39.867	52.807	40.745	1.00	43.89	G
ATOM	13480	O	LYS	G	684	41.096	52.845	40.887	1.00	43.89	G
ATOM	13481	N	ASP	G	685	39.008	52.931	41.755	1.00	100.07	G
ATOM	13482	CA	ASP	G	685	39.452	53.136	43.132	1.00	100.07	G
ATOM	13483	CB	ASP	G	685	38.262	53.085	44.111	1.00	87.93	G
ATOM	13484	CG	ASP	G	685	37.108	52.229	43.610	1.00	87.93	G
ATOM	13485	OD1	ASP	G	685	36.414	52.649	42.654	1.00	87.93	G
ATOM	13486	OD2	ASP	G	685	36.893	51.140	44.183	1.00	87.93	G

ATOM	13487	C	ASP	G	685	40.533	52.173	43.595	1.00100.07	G
ATOM	13488	O	ASP	G	685	41.146	52.378	44.639	1.00100.07	G
ATOM	13489	N	GLU	G	686	40.772	51.129	42.813	1.00100.07	G
ATOM	13490	CA	GLU	G	686	41.784	50.147	43.165	1.00100.07	G
ATOM	13491	CB	GLU	G	686	41.770	49.002	42.164	1.00 84.76	G
ATOM	13492	CG	GLU	G	686	40.408	48.380	42.036	1.00 84.76	G
ATOM	13493	CD	GLU	G	686	40.394	47.204	41.103	1.00 84.76	G
ATOM	13494	OE1	GLU	G	686	40.990	46.161	41.452	1.00 84.76	G
ATOM	13495	OE2	GLU	G	686	39.786	47.329	40.018	1.00 84.76	G
ATOM	13496	C	GLU	G	686	43.146	50.805	43.190	1.00100.07	G
ATOM	13497	O	GLU	G	686	44.085	50.279	43.795	1.00100.07	G
ATOM	13498	N	VAL	G	687	43.250	51.958	42.533	1.00 46.49	G
ATOM	13499	CA	VAL	G	687	44.514	52.682	42.508	1.00 46.49	G
ATOM	13500	CB	VAL	G	687	44.814	53.289	41.138	1.00 35.04	G
ATOM	13501	CG1	VAL	G	687	46.045	54.179	41.242	1.00 35.04	G
ATOM	13502	CG2	VAL	G	687	45.052	52.188	40.118	1.00 35.04	G
ATOM	13503	C	VAL	G	687	44.544	53.797	43.547	1.00 46.49	G
ATOM	13504	O	VAL	G	687	45.270	53.686	44.526	1.00 46.49	G
ATOM	13505	N	TRP	G	688	43.772	54.863	43.333	1.00 20.87	G
ATOM	13506	CA	TRP	G	688	43.720	55.965	44.281	1.00 20.87	G
ATOM	13507	CB	TRP	G	688	42.305	56.476	44.383	1.00 49.62	G
ATOM	13508	CG	TRP	G	688	41.901	57.091	43.144	1.00 49.62	G
ATOM	13509	CD2	TRP	G	688	42.654	58.040	42.391	1.00 49.62	G
ATOM	13510	CE2	TRP	G	688	41.899	58.355	41.247	1.00 49.62	G
ATOM	13511	CE3	TRP	G	688	43.897	58.658	42.574	1.00 49.62	G
ATOM	13512	CD1	TRP	G	688	40.754	56.869	42.459	1.00 49.62	G
ATOM	13513	NE1	TRP	G	688	40.740	57.622	41.313	1.00 49.62	G
ATOM	13514	CZ2	TRP	G	688	42.341	59.262	40.278	1.00 49.62	G
ATOM	13515	CZ3	TRP	G	688	44.338	59.555	41.615	1.00 49.62	G
ATOM	13516	CH2	TRP	G	688	43.560	59.849	40.480	1.00 49.62	G
ATOM	13517	C	TRP	G	688	44.188	55.531	45.645	1.00 20.87	G
ATOM	13518	O	TRP	G	688	45.009	56.198	46.269	1.00 20.87	G
ATOM	13519	N	ASP	G	689	43.660	54.408	46.113	1.00 42.52	G
ATOM	13520	CA	ASP	G	689	44.078	53.882	47.394	1.00 42.52	G
ATOM	13521	CB	ASP	G	689	43.327	52.580	47.721	1.00100.07	G
ATOM	13522	CG	ASP	G	689	41.810	52.717	47.599	1.00100.07	G
ATOM	13523	OD1	ASP	G	689	41.310	53.862	47.662	1.00100.07	G
ATOM	13524	OD2	ASP	G	689	41.117	51.678	47.456	1.00100.07	G
ATOM	13525	C	ASP	G	689	45.577	53.600	47.241	1.00 42.52	G
ATOM	13526	O	ASP	G	689	46.134	52.746	47.921	1.00 42.52	G
ATOM	13527	N	ALA	G	690	46.222	54.327	46.333	1.00 47.89	G
ATOM	13528	CA	ALA	G	690	47.643	54.188	46.058	1.00 47.89	G
ATOM	13529	CB	ALA	G	690	47.882	54.194	44.566	1.00 36.87	G
ATOM	13530	C	ALA	G	690	48.389	55.344	46.698	1.00 47.89	G
ATOM	13531	O	ALA	G	690	49.052	55.180	47.727	1.00 47.89	G
ATOM	13532	N	LEU	G	691	48.280	56.518	46.087	1.00 40.84	G
ATOM	13533	CA	LEU	G	691	48.955	57.678	46.623	1.00 40.84	G
ATOM	13534	CB	LEU	G	691	48.634	58.920	45.804	1.00 23.09	G
ATOM	13535	CG	LEU	G	691	47.944	58.688	44.465	1.00 23.09	G
ATOM	13536	CD1	LEU	G	691	46.503	58.272	44.744	1.00 23.09	G
ATOM	13537	CD2	LEU	G	691	47.974	59.951	43.599	1.00 23.09	G
ATOM	13538	C	LEU	G	691	48.513	57.876	48.069	1.00 40.84	G
ATOM	13539	O	LEU	G	691	49.340	58.165	48.942	1.00 40.84	G
ATOM	13540	N	GLU	G	692	47.219	57.705	48.342	1.00 64.10	G
ATOM	13541	CA	GLU	G	692	46.733	57.880	49.710	1.00 64.10	G
ATOM	13542	CB	GLU	G	692	45.261	57.489	49.842	1.00 49.74	G
ATOM	13543	CG	GLU	G	692	44.271	58.463	49.215	1.00 49.74	G
ATOM	13544	CD	GLU	G	692	42.837	58.188	49.660	1.00 49.74	G
ATOM	13545	OE1	GLU	G	692	42.624	58.220	50.892	1.00 49.74	G
ATOM	13546	OE2	GLU	G	692	41.940	57.943	48.801	1.00 49.74	G
ATOM	13547	C	GLU	G	692	47.559	57.062	50.689	1.00 64.10	G
ATOM	13548	O	GLU	G	692	47.240	57.006	51.874	1.00 64.10	G
ATOM	13549	N	GLU	G	693	48.598	56.405	50.179	1.00 49.95	G
ATOM	13550	CA	GLU	G	693	49.506	55.633	51.011	1.00 49.95	G
ATOM	13551	CB	GLU	G	693	49.291	54.126	50.825	1.00100.07	G
ATOM	13552	CG	GLU	G	693	49.785	53.255	52.009	1.00100.07	G
ATOM	13553	CD	GLU	G	693	49.297	53.739	53.391	1.00100.07	G
ATOM	13554	OE1	GLU	G	693	48.170	54.273	53.492	1.00100.07	G
ATOM	13555	OE2	GLU	G	693	50.036	53.569	54.387	1.00100.07	G
ATOM	13556	C	GLU	G	693	50.951	56.039	50.683	1.00 49.95	G
ATOM	13557	O	GLU	G	693	51.817	56.065	51.566	1.00 49.95	G
ATOM	13558	N	VAL	G	694	51.227	56.366	49.426	1.00 39.51	G
ATOM	13559	CA	VAL	G	694	52.577	56.814	49.076	1.00 39.51	G
ATOM	13560	CB	VAL	G	694	52.730	56.982	47.569	1.00 40.15	G
ATOM	13561	CG1	VAL	G	694	54.179	56.794	47.165	1.00 40.15	G
ATOM	13562	CG2	VAL	G	694	51.826	56.012	46.863	1.00 40.15	G
ATOM	13563	C	VAL	G	694	52.721	58.198	49.727	1.00 39.51	G
ATOM	13564	O	VAL	G	694	53.490	58.395	50.672	1.00 39.51	G
ATOM	13565	N	ILE	G	695	51.952	59.145	49.197	1.00 36.94	G
ATOM	13566	CA	ILE	G	695	51.902	60.512	49.683	1.00 36.94	G
ATOM	13567	CB	ILE	G	695	50.572	61.185	49.226	1.00 24.82	G
ATOM	13568	CG2	ILE	G	695	49.718	61.592	50.406	1.00 24.82	G
ATOM	13569	CG1	ILE	G	695	50.886	62.396	48.368	1.00 24.82	G
ATOM	13570	CD	ILE	G	695	51.757	62.063	47.194	1.00 24.82	G

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ATOM	13655	CB	THR	G	707	59.990	83.528	46.652	1.00	42.58	G
ATOM	13656	OG1	THR	G	707	59.029	82.579	46.188	1.00	42.58	G
ATOM	13657	CG2	THR	G	707	60.601	83.001	47.925	1.00	42.58	G
ATOM	13658	C	THR	G	707	60.203	85.783	47.667	1.00	41.13	G
ATOM	13659	O	THR	G	707	61.409	85.781	47.460	1.00	41.13	G
ATOM	13660	N	LEU	G	708	59.615	86.598	48.528	1.00	13.85	G
ATOM	13661	CA	LEU	G	708	60.391	87.493	49.351	1.00	13.85	G
ATOM	13662	CB	LEU	G	708	59.617	88.782	49.559	1.00	53.00	G
ATOM	13663	CG	LEU	G	708	59.283	89.477	48.244	1.00	53.00	G
ATOM	13664	CD1	LEU	G	708	58.119	90.445	48.412	1.00	53.00	G
ATOM	13665	CD2	LEU	G	708	60.539	90.181	47.751	1.00	53.00	G
ATOM	13666	C	LEU	G	708	60.474	86.702	50.642	1.00	13.85	G
ATOM	13667	O	LEU	G	708	59.524	86.023	50.983	1.00	13.85	G
ATOM	13668	N	HIS	G	709	61.599	86.753	51.341	1.00	34.04	G
ATOM	13669	CA	HIS	G	709	61.773	86.024	52.602	1.00	34.04	G
ATOM	13670	CB	HIS	G	709	61.260	86.887	53.769	1.00	21.97	G
ATOM	13671	CG	HIS	G	709	59.773	86.850	53.971	1.00	21.97	G
ATOM	13672	CD2	HIS	G	709	59.035	86.635	55.087	1.00	21.97	G
ATOM	13673	ND1	HIS	G	709	58.870	87.119	52.965	1.00	21.97	G
ATOM	13674	CE1	HIS	G	709	57.641	87.072	53.449	1.00	21.97	G
ATOM	13675	NE2	HIS	G	709	57.714	86.781	54.735	1.00	21.97	G
ATOM	13676	C	HIS	G	709	61.200	84.587	52.724	1.00	34.04	G
ATOM	13677	O	HIS	G	709	60.108	84.277	52.255	1.00	34.04	G
ATOM	13678	N	ALA	G	710	61.972	83.725	53.378	1.00	37.34	G
ATOM	13679	CA	ALA	G	710	61.637	82.321	53.617	1.00	37.34	G
ATOM	13680	CB	ALA	G	710	61.887	81.998	55.087	1.00	39.67	G
ATOM	13681	C	ALA	G	710	60.267	81.776	53.225	1.00	37.34	G
ATOM	13682	O	ALA	G	710	60.165	80.749	52.556	1.00	37.34	G
ATOM	13683	N	LEU	G	711	59.213	82.459	53.644	1.00	37.53	G
ATOM	13684	CA	LEU	G	711	57.845	82.000	53.406	1.00	37.53	G
ATOM	13685	CB	LEU	G	711	56.930	82.763	54.368	1.00	68.00	G
ATOM	13686	CG	LEU	G	711	57.603	82.864	55.753	1.00	68.00	G
ATOM	13687	CD1	LEU	G	711	56.779	83.729	56.671	1.00	68.00	G
ATOM	13688	CD2	LEU	G	711	57.801	81.484	56.361	1.00	68.00	G
ATOM	13689	C	LEU	G	711	57.247	81.966	51.984	1.00	37.53	G
ATOM	13690	O	LEU	G	711	56.051	81.728	51.803	1.00	37.53	G
ATOM	13691	N	GLY	G	712	58.065	82.192	50.970	1.00	55.55	G
ATOM	13692	CA	GLY	G	712	57.543	82.115	49.620	1.00	55.55	G
ATOM	13693	C	GLY	G	712	57.451	80.630	49.296	1.00	55.55	G
ATOM	13694	O	GLY	G	712	56.982	80.221	48.219	1.00	55.55	G
ATOM	13695	N	ILE	G	713	57.925	79.811	50.235	1.00	19.96	G
ATOM	13696	CA	ILE	G	713	57.883	78.372	50.050	1.00	19.96	G
ATOM	13697	CB	ILE	G	713	59.309	77.764	49.902	1.00	24.03	G
ATOM	13698	CG2	ILE	G	713	59.247	76.251	49.930	1.00	24.03	G
ATOM	13699	CG1	ILE	G	713	59.905	78.125	48.542	1.00	24.03	G
ATOM	13700	CD	ILE	G	713	60.331	79.531	48.420	1.00	24.03	G
ATOM	13701	C	ILE	G	713	57.107	77.672	51.166	1.00	19.96	G
ATOM	13702	O	ILE	G	713	55.919	77.423	51.004	1.00	19.96	G
ATOM	13703	N	ALA	G	714	57.740	77.364	52.291	1.00	25.28	G
ATOM	13704	CA	ALA	G	714	57.035	76.662	53.376	1.00	25.28	G
ATOM	13705	CB	ALA	G	714	56.110	77.619	54.090	1.00	16.21	G
ATOM	13706	C	ALA	G	714	56.257	75.409	52.884	1.00	25.28	G
ATOM	13707	O	ALA	G	714	55.477	75.464	51.920	1.00	25.28	G
ATOM	13708	N	ALA	G	715	56.449	74.282	53.569	1.00	15.03	G
ATOM	13709	CA	ALA	G	715	55.838	73.023	53.135	1.00	15.03	G
ATOM	13710	CB	ALA	G	715	56.881	71.902	53.217	1.00	20.14	G
ATOM	13711	C	ALA	G	715	54.547	72.552	53.777	1.00	15.03	G
ATOM	13712	O	ALA	G	715	54.178	72.982	54.861	1.00	15.03	G
ATOM	13713	N	PHE	G	716	53.901	71.612	53.093	1.00	36.91	G
ATOM	13714	CA	PHE	G	716	52.633	71.038	53.521	1.00	36.91	G
ATOM	13715	CB	PHE	G	716	51.507	71.756	52.797	1.00	16.08	G
ATOM	13716	CG	PHE	G	716	51.349	73.198	53.180	1.00	16.08	G
ATOM	13717	CD1	PHE	G	716	51.264	74.179	52.200	1.00	16.08	G
ATOM	13718	CD2	PHE	G	716	51.178	73.567	54.513	1.00	16.08	G
ATOM	13719	CE1	PHE	G	716	51.001	75.494	52.541	1.00	16.08	G
ATOM	13720	CE2	PHE	G	716	50.913	74.884	54.862	1.00	16.08	G
ATOM	13721	CZ	PHE	G	716	50.822	75.846	53.878	1.00	16.08	G
ATOM	13722	C	PHE	G	716	52.492	69.534	53.242	1.00	36.91	G
ATOM	13723	O	PHE	G	716	53.312	68.930	52.554	1.00	36.91	G
ATOM	13724	N	GLN	G	717	51.434	68.938	53.781	1.00	43.02	G
ATOM	13725	CA	GLN	G	717	51.159	67.529	53.543	1.00	43.02	G
ATOM	13726	CB	GLN	G	717	50.658	66.868	54.810	1.00	62.12	G
ATOM	13727	CG	GLN	G	717	51.700	66.046	55.496	1.00	62.12	G
ATOM	13728	CD	GLN	G	717	51.127	65.260	56.646	1.00	62.12	G
ATOM	13729	OE1	GLN	G	717	50.101	64.590	56.500	1.00	62.12	G
ATOM	13730	NE2	GLN	G	717	51.785	65.327	57.800	1.00	62.12	G
ATOM	13731	C	GLN	G	717	50.063	67.482	52.489	1.00	43.02	G
ATOM	13732	O	GLN	G	717	48.958	67.942	52.739	1.00	43.02	G
ATOM	13733	N	PRO	G	718	50.348	66.937	51.293	1.00	40.24	G
ATOM	13734	CD	PRO	G	718	51.639	66.529	50.716	1.00	66.21	G
ATOM	13735	CA	PRO	G	718	49.297	66.895	50.270	1.00	40.24	G
ATOM	13736	CB	PRO	G	718	49.978	66.213	49.092	1.00	66.21	G
ATOM	13737	CG	PRO	G	718	51.370	66.680	49.216	1.00	66.21	G
ATOM	13738	C	PRO	G	718	48.074	66.147	50.728	1.00	40.24	G

ATOM	13739	O	PRO	G	718	48.171	65.153	51.433	1.00	40.24	G
ATOM	13740	N	VAL	G	719	46.919	66.642	50.320	1.00	18.41	G
ATOM	13741	CA	VAL	G	719	45.669	66.019	50.677	1.00	18.41	G
ATOM	13742	CB	VAL	G	719	45.034	66.762	51.806	1.00	5.76	G
ATOM	13743	CG1	VAL	G	719	43.514	66.781	51.638	1.00	5.76	G
ATOM	13744	CG2	VAL	G	719	45.416	66.081	53.096	1.00	5.76	G
ATOM	13745	C	VAL	G	719	44.723	65.994	49.499	1.00	18.41	G
ATOM	13746	O	VAL	G	719	44.280	67.042	49.026	1.00	18.41	G
ATOM	13747	N	LEU	G	720	44.396	64.794	49.038	1.00	24.94	G
ATOM	13748	CA	LEU	G	720	43.524	64.659	47.889	1.00	24.94	G
ATOM	13749	CB	LEU	G	720	43.204	63.191	47.676	1.00	29.73	G
ATOM	13750	CG	LEU	G	720	44.252	62.527	46.770	1.00	29.73	G
ATOM	13751	CD1	LEU	G	720	45.679	62.911	47.124	1.00	29.73	G
ATOM	13752	CD2	LEU	G	720	44.075	61.048	46.887	1.00	29.73	G
ATOM	13753	C	LEU	G	720	42.274	65.517	47.979	1.00	24.94	G
ATOM	13754	O	LEU	G	720	41.368	65.268	48.767	1.00	24.94	G
ATOM	13755	N	VAL	G	721	42.279	66.557	47.158	1.00	18.32	G
ATOM	13756	CA	VAL	G	721	41.215	67.542	47.073	1.00	18.32	G
ATOM	13757	CB	VAL	G	721	41.810	68.968	47.145	1.00	80.67	G
ATOM	13758	CG1	VAL	G	721	40.800	70.004	46.649	1.00	80.67	G
ATOM	13759	CG2	VAL	G	721	42.255	69.267	48.574	1.00	80.67	G
ATOM	13760	C	VAL	G	721	40.505	67.357	45.739	1.00	18.32	G
ATOM	13761	O	VAL	G	721	41.067	66.781	44.820	1.00	18.32	G
ATOM	13762	N	GLU	G	722	39.288	67.876	45.629	1.00	45.32	G
ATOM	13763	CA	GLU	G	722	38.489	67.734	44.426	1.00	45.32	G
ATOM	13764	CB	GLU	G	722	37.206	68.544	44.550	1.00	44.29	G
ATOM	13765	CG	GLU	G	722	36.123	68.015	43.653	1.00	44.29	G
ATOM	13766	CD	GLU	G	722	36.437	66.609	43.166	1.00	44.29	G
ATOM	13767	OE1	GLU	G	722	36.622	65.704	44.023	1.00	44.29	G
ATOM	13768	OE2	GLU	G	722	36.507	66.423	41.925	1.00	44.29	G
ATOM	13769	C	GLU	G	722	39.136	68.012	43.077	1.00	45.32	G
ATOM	13770	O	GLU	G	722	40.215	67.496	42.795	1.00	45.32	G
ATOM	13771	N	GLY	G	723	38.491	68.829	42.243	1.00	34.23	G
ATOM	13772	CA	GLY	G	723	39.013	69.064	40.899	1.00	34.23	G
ATOM	13773	C	GLY	G	723	39.745	70.316	40.433	1.00	34.23	G
ATOM	13774	O	GLY	G	723	39.124	71.321	40.077	1.00	34.23	G
ATOM	13775	N	GLN	G	724	41.071	70.223	40.375	1.00	56.41	G
ATOM	13776	CA	GLN	G	724	41.933	71.320	39.938	1.00	56.41	G
ATOM	13777	CB	GLN	G	724	41.507	71.809	38.546	1.00	59.60	G
ATOM	13778	CG	GLN	G	724	41.979	7				

ATOM	13823	C	HIS	G	729	44.767	78.826	54.792	1.00	39.07	G
ATOM	13824	O	HIS	G	729	45.839	79.420	54.937	1.00	39.07	G
ATOM	13825	N	PRO	G	730	43.581	79.412	55.063	1.00	24.89	G
ATOM	13826	CD	PRO	G	730	42.423	78.677	55.568	1.00	6.55	G
ATOM	13827	CA	PRO	G	730	43.439	80.799	55.477	1.00	24.89	G
ATOM	13828	CB	PRO	G	730	42.062	80.829	56.102	1.00	6.55	G
ATOM	13829	CG	PRO	G	730	42.020	79.545	56.748	1.00	6.55	G
ATOM	13830	C	PRO	G	730	44.507	81.276	56.420	1.00	24.89	G
ATOM	13831	O	PRO	G	730	44.875	82.443	56.366	1.00	24.89	G
ATOM	13832	N	LEU	G	731	45.026	80.420	57.288	1.00	27.73	G
ATOM	13833	CA	LEU	G	731	46.059	80.943	58.162	1.00	27.73	G
ATOM	13834	CB	LEU	G	731	46.388	79.987	59.301	1.00	6.67	G
ATOM	13835	CG	LEU	G	731	45.513	80.570	60.407	1.00	6.67	G
ATOM	13836	CD1	LEU	G	731	45.547	79.790	61.728	1.00	6.67	G
ATOM	13837	CD2	LEU	G	731	45.989	82.000	60.599	1.00	6.67	G
ATOM	13838	C	LEU	G	731	47.306	81.323	57.408	1.00	27.73	G
ATOM	13839	O	LEU	G	731	47.825	82.424	57.575	1.00	27.73	G
ATOM	13840	N	VAL	G	732	47.777	80.448	56.536	1.00	25.75	G
ATOM	13841	CA	VAL	G	732	48.981	80.787	55.812	1.00	25.75	G
ATOM	13842	CB	VAL	G	732	49.443	79.641	54.877	1.00	22.98	G
ATOM	13843	CG1	VAL	G	732	50.201	80.201	53.696	1.00	22.98	G
ATOM	13844	CG2	VAL	G	732	50.369	78.698	55.640	1.00	22.98	G
ATOM	13845	C	VAL	G	732	48.911	82.095	55.035	1.00	25.75	G
ATOM	13846	O	VAL	G	732	49.847	82.869	55.146	1.00	25.75	G
ATOM	13847	N	CYS	G	733	47.836	82.369	54.287	1.00	25.89	G
ATOM	13848	CA	CYS	G	733	47.777	83.617	53.510	1.00	25.89	G
ATOM	13849	CB	CYS	G	733	46.400	84.289	53.614	1.00	40.39	G
ATOM	13850	SG	CYS	G	733	46.388	86.066	53.027	1.00	40.39	G
ATOM	13851	C	CYS	G	733	48.870	84.626	53.936	1.00	25.89	G
ATOM	13852	O	CYS	G	733	49.939	84.687	53.318	1.00	25.89	G
ATOM	13853	N	GLU	G	734	48.600	85.395	54.995	1.00	26.35	G
ATOM	13854	CA	GLU	G	734	49.537	86.388	55.541	1.00	26.35	G
ATOM	13855	CB	GLU	G	734	49.660	86.214	57.060	1.00	95.88	G
ATOM	13856	CG	GLU	G	734	48.382	86.468	57.808	1.00	95.88	G
ATOM	13857	CD	GLU	G	734	47.743	87.754	57.360	1.00	95.88	G
ATOM	13858	OE1	GLU	G	734	48.461	88.777	57.327	1.00	95.88	G
ATOM	13859	OE2	GLU	G	734	46.534	87.741	57.033	1.00	95.88	G
ATOM	13860	C	GLU	G	734	50.930	86.333	54.938	1.00	26.35	G
ATOM	13861	O	GLU	G	734	51.175	86.902	53.895	1.00	26.35	G
ATOM	13862	N	ALA	G	735	51.835	85.633	55.611	1.00	10.09	G
ATOM	13863	CA	ALA	G	735	53.206	85.498	55.160	1.00	10.09	G
ATOM	13864	CB	ALA	G	735	53.868	84.376	55.869	1.00	5.07	G
ATOM	13865	C	ALA	G	735	53.339	85.291	53.672	1.00	10.09	G
ATOM	13866	O	ALA	G	735	53.891	86.148	52.982	1.00	10.09	G
ATOM	13867	N	PHE	G	736	52.839	84.161	53.172	1.00	22.54	G
ATOM	13868	CA	PHE	G	736	52.941	83.842	51.737	1.00	22.54	G
ATOM	13869	CB	PHE	G	736	52.390	82.425	51.451	1.00	26.85	G
ATOM	13870	CG	PHE	G	736	52.978	81.341	52.358	1.00	26.85	G
ATOM	13871	CD1	PHE	G	736	53.090	81.545	53.758	1.00	26.85	G
ATOM	13872	CD2	PHE	G	736	53.337	80.093	51.848	1.00	26.85	G
ATOM	13873	CE1	PHE	G	736	53.549	80.521	54.637	1.00	26.85	G
ATOM	13874	CE2	PHE	G	736	53.798	79.067	52.732	1.00	26.85	G
ATOM	13875	CZ	PHE	G	736	53.891	79.296	54.129	1.00	26.85	G
ATOM	13876	C	PHE	G	736	52.233	84.899	50.893	1.00	22.54	G
ATOM	13877	O	PHE	G	736	52.726	85.314	49.848	1.00	22.54	G
ATOM	13878	N	ASN	G	737	51.085	85.354	51.366	1.00	43.47	G
ATOM	13879	CA	ASN	G	737	50.345	86.381	50.661	1.00	43.47	G
ATOM	13880	CB	ASN	G	737	51.310	87.464	50.175	1.00	31.04	G
ATOM	13881	CG	ASN	G	737	50.610	88.555	49.396	1.00	31.04	G
ATOM	13882	OD1	ASN	G	737	49.995	88.291	48.360	1.00	31.04	G
ATOM	13883	ND2	ASN	G	737	50.693	89.796	49.893	1.00	31.04	G
ATOM	13884	C	ASN	G	737	49.575	85.827	49.477	1.00	43.47	G
ATOM	13885	O	ASN	G	737	50.190	85.327	48.533	1.00	43.47	G
ATOM	13886	N	ALA	G	738	48.241	85.920	49.510	1.00	23.77	G
ATOM	13887	CA	ALA	G	738	47.450	85.416	48.388	1.00	23.77	G
ATOM	13888	CB	ALA	G	738	47.645	83.901	48.276	1.00	72.85	G
ATOM	13889	C	ALA	G	738	45.955	85.744	48.327	1.00	23.77	G
ATOM	13890	O	ALA	G	738	45.138	84.845	48.319	1.00	23.77	G
ATOM	13891	N	ASP	G	739	45.568	87.008	48.256	1.00	84.88	G
ATOM	13892	CA	ASP	G	739	44.137	87.278	48.165	1.00	84.88	G
ATOM	13893	CB	ASP	G	739	43.879	88.785	48.016	1.00	100.07	G
ATOM	13894	CG	ASP	G	739	44.843	89.460	47.056	1.00	100.07	G
ATOM	13895	OD1	ASP	G	739	46.057	89.500	47.354	1.00	100.07	G
ATOM	13896	OD2	ASP	G	739	44.381	89.958	46.006	1.00	100.07	G
ATOM	13897	C	ASP	G	739	43.553	86.501	46.971	1.00	84.88	G
ATOM	13898	O	ASP	G	739	43.701	86.918	45.821	1.00	84.88	G
ATOM	13899	N	PHE	G	740	42.905	85.369	47.253	1.00	5.65	G
ATOM	13900	CA	PHE	G	740	42.317	84.520	46.217	1.00	5.65	G
ATOM	13901	CB	PHE	G	740	41.488	83.404	46.839	1.00	13.82	G
ATOM	13902	CG	PHE	G	740	42.123	82.754	48.021	1.00	13.82	G
ATOM	13903	CD1	PHE	G	740	42.274	83.436	49.207	1.00	13.82	G
ATOM	13904	CD2	PHE	G	740	42.572	81.449	47.954	1.00	13.82	G
ATOM	13905	CE1	PHE	G	740	42.868	82.826	50.308	1.00	13.82	G
ATOM	13906	CE2	PHE	G	740	43.168	80.839	49.058	1.00	13.82	G

ATOM	13907	CZ	PHE	G	740	43.313	81.529	50.223	1.00	13.82	G
ATOM	13908	C	PHE	G	740	41.393	85.278	45.284	1.00	5.65	G
ATOM	13909	O	PHE	G	740	40.206	85.392	45.574	1.00	5.65	G
ATOM	13910	N	ASP	G	741	41.912	85.780	44.168	1.00	14.73	G
ATOM	13911	CA	ASP	G	741	41.091	86.510	43.187	1.00	14.73	G
ATOM	13912	CB	ASP	G	741	41.012	88.015	43.511	1.00	68.42	G
ATOM	13913	CG	ASP	G	741	42.381	88.672	43.653	1.00	68.42	G
ATOM	13914	OD1	ASP	G	741	43.400	87.991	43.428	1.00	68.42	G
ATOM	13915	OD2	ASP	G	741	42.434	89.875	43.995	1.00	68.42	G
ATOM	13916	C	ASP	G	741	41.694	86.305	41.807	1.00	14.73	G
ATOM	13917	O	ASP	G	741	41.600	87.163	40.914	1.00	14.73	G
ATOM	13918	N	GLY	G	742	42.314	85.136	41.661	1.00	35.12	G
ATOM	13919	CA	GLY	G	742	42.963	84.760	40.425	1.00	35.12	G
ATOM	13920	C	GLY	G	742	44.412	84.397	40.683	1.00	35.12	G
ATOM	13921	O	GLY	G	742	45.136	84.056	39.756	1.00	35.12	G
ATOM	13922	N	ASP	G	743	44.839	84.448	41.942	1.00	31.29	G
ATOM	13923	CA	ASP	G	743	46.231	84.156	42.286	1.00	31.29	G
ATOM	13924	CB	ASP	G	743	46.521	84.495	43.767	1.00	71.46	G
ATOM	13925	CG	ASP	G	743	46.512	86.019	44.050	1.00	71.46	G
ATOM	13926	OD1	ASP	G	743	47.067	86.790	43.231	1.00	71.46	G
ATOM	13927	OD2	ASP	G	743	45.965	86.449	45.094	1.00	71.46	G
ATOM	13928	C	ASP	G	743	46.613	82.721	41.983	1.00	31.29	G
ATOM	13929	O	ASP	G	743	45.757	81.844	41.929	1.00	31.29	G
ATOM	13930	N	GLN	G	744	47.911	82.506	41.776	1.00	17.67	G
ATOM	13931	CA	GLN	G	744	48.479	81.190	41.446	1.00	17.67	G
ATOM	13932	CB	GLN	G	744	48.826	81.135	39.957	1.00	50.63	G
ATOM	13933	CG	GLN	G	744	47.652	81.262	39.027	1.00	50.63	G
ATOM	13934	CD	GLN	G	744	48.052	81.012	37.591	1.00	50.63	G
ATOM	13935	OE1	GLN	G	744	48.747	80.045	37.298	1.00	50.63	G
ATOM	13936	NE2	GLN	G	744	47.611	81.877	36.687	1.00	50.63	G
ATOM	13937	C	GLN	G	744	49.740	80.795	42.237	1.00	17.67	G
ATOM	13938	O	GLN	G	744	50.767	81.473	42.178	1.00	17.67	G
ATOM	13939	N	MET	G	745	49.661	79.693	42.972	1.00	9.28	G
ATOM	13940	CA	MET	G	745	50.808	79.220	43.727	1.00	9.28	G
ATOM	13941	CB	MET	G	745	50.420	78.855	45.153	1.00	35.53	G
ATOM	13942	CG	MET	G	745	50.362	80.045	46.064	1.00	35.53	G
ATOM	13943	SD	MET	G	745	49.823	79.622	47.713	1.00	35.53	G
ATOM	13944	CE	MET	G	745	48.263	80.588	47.859	1.00	35.53	G
ATOM	13945	C	MET	G	745	51.302	78.001	42.994	1.00	9.28	G
ATOM	13946	O	MET	G	745	50.521	77.355	42.300	1.00	9.28	G
ATOM	13947	N	ALA	G	746	52.596	77.708	43.114	1.00	20.56	G
ATOM	13948	CA	ALA	G	746	53.182	76.554	42.449	1.00	20.56	G
ATOM	13949	CB	ALA	G	746	54.471	76.927	41.790	1.00	16.51	G
ATOM	13950	C	ALA	G	746	53.436	75.513	43.490	1.00	20.56	G
ATOM	13951	O	ALA	G	746	53.366	75.807	44.680	1.00	20.56	G
ATOM	13952	N	VAL	G	747	53.735	74.295	43.061	1.00	15.01	G
ATOM	13953	CA	VAL	G	747	53.989	73.231	44.025	1.00	15.01	G
ATOM	13954	CB	VAL	G	747	52.772	72.326	44.180	1.00	9.72	G
ATOM	13955	CG1	VAL	G	747	52.477	71.618	42.883	1.00	9.72	G
ATOM	13956	CG2	VAL	G	747	53.031	71.333	45.226	1.00	9.72	G
ATOM	13957	C	VAL	G	747	55.153	72.383	43.581	1.00	15.01	G
ATOM	13958	O	VAL	G	747	55.249	72.059	42.413	1.00	15.01	G
ATOM	13959	N	HIS	G	748	56.046	72.031	44.497	1.00	20.53	G
ATOM	13960	CA	HIS	G	748	57.183	71.189	44.131	1.00	20.53	G
ATOM	13961	CB	HIS	G	748	58.520	71.864	44.438	1.00	11.94	G
ATOM	13962	CG	HIS	G	748	58.761	73.093	43.637	1.00	11.94	G
ATOM	13963	CD2	HIS	G	748	58.955	74.379	44.012	1.00	11.94	G
ATOM	13964	ND1	HIS	G	748	58.776	73.083	42.263	1.00	11.94	G
ATOM	13965	CE1	HIS	G	748	58.965	74.314	41.823	1.00	11.94	G
ATOM	13966	NE2	HIS	G	748	59.078	75.120	42.863	1.00	11.94	G
ATOM	13967	C	HIS	G	748	57.105	69.905	44.910	1.00	20.53	G
ATOM	13968	O	HIS	G	748	56.125	69.654	45.603	1.00	20.53	G
ATOM	13969	N	VAL	G	749	58.150	69.097	44.804	1.00	41.37	G
ATOM	13970	CA	VAL	G	749	58.160	67.843	45.514	1.00	41.37	G
ATOM	13971	CB	VAL	G	749	57.857	66.680	44.591	1.00	30.63	G
ATOM	13972	CG1	VAL	G	749	57.342	65.512	45.417	1.00	30.63	G
ATOM	13973	CG2	VAL	G	749	56.874	67.099	43.528	1.00	30.63	G
ATOM	13974	C	VAL	G	749	59.482	67.538	46.156	1.00	41.37	G
ATOM	13975	O	VAL	G	749	60.484	67.397	45.469	1.00	41.37	G
ATOM	13976	N	PRO	G	750	59.516	67.453	47.486	1.00	36.25	G
ATOM	13977	CD	PRO	G	750	58.461	67.485	48.506	1.00	66.28	G
ATOM	13978	CA	PRO	G	750	60.807	67.136	48.083	1.00	36.25	G
ATOM	13979	CB	PRO	G	750	60.511	67.173	49.572	1.00	66.28	G
ATOM	13980	CG	PRO	G	750	59.093	66.709	49.628	1.00	66.28	G
ATOM	13981	C	PRO	G	750	61.079	65.731	47.565	1.00	36.25	G
ATOM	13982	O	PRO	G	750	60.444	64.759	47.991	1.00	36.25	G
ATOM	13983	N	LEU	G	751	61.996	65.647	46.609	1.00	56.44	G
ATOM	13984	CA	LEU	G	751	62.352	64.392	45.974	1.00	56.44	G
ATOM	13985	CB	LEU	G	751	62.192	64.533	44.463	1.00	99.95	G
ATOM	13986	CG	LEU	G	751	62.585	63.350	43.581	1.00	99.95	G
ATOM	13987	CD1	LEU	G	751	61.344	62.546	43.254	1.00	99.95	G
ATOM	13988	CD2	LEU	G	751	63.241	63.851	42.303	1.00	99.95	G
ATOM	13989	C	LEU	G	751	63.791	64.025	46.279	1.00	56.44	G
ATOM	13990	O	LEU	G	751	64.614	63.996	45.365	1.00	56.44	G

ATOM	13991	N	SER	G	752	64.105	63.747	47.544	1.00	34.49	G
ATOM	13992	CA	SER	G	752	65.478	63.387	47.919	1.00	34.49	G
ATOM	13993	CB	SER	G	752	66.422	64.606	47.802	1.00	22.59	G
ATOM	13994	OG	SER	G	752	66.071	65.525	46.770	1.00	22.59	G
ATOM	13995	C	SER	G	752	65.532	62.886	49.357	1.00	34.49	G
ATOM	13996	O	SER	G	752	66.478	63.201	50.074	1.00	34.49	G
ATOM	13997	N	SER	G	753	64.542	62.092	49.764	1.00	28.54	G
ATOM	13998	CA	SER	G	753	64.461	61.602	51.149	1.00	28.54	G
ATOM	13999	CB	SER	G	753	65.237	60.297	51.378	1.00	15.37	G
ATOM	14000	OG	SER	G	753	65.300	60.000	52.775	1.00	15.37	G
ATOM	14001	C	SER	G	753	65.033	62.659	52.062	1.00	28.54	G
ATOM	14002	O	SER	G	753	64.301	63.472	52.604	1.00	28.54	G
ATOM	14003	N	PHE	G	754	66.347	62.643	52.223	1.00	39.13	G
ATOM	14004	CA	PHE	G	754	67.004	63.626	53.049	1.00	39.13	G
ATOM	14005	CB	PHE	G	754	68.463	63.757	52.646	1.00	77.81	G
ATOM	14006	CG	PHE	G	754	69.311	64.402	53.689	1.00	77.81	G
ATOM	14007	CD1	PHE	G	754	70.101	63.629	54.531	1.00	77.81	G
ATOM	14008	CD2	PHE	G	754	69.291	65.772	53.862	1.00	77.81	G
ATOM	14009	CE1	PHE	G	754	70.858	64.212	55.528	1.00	77.81	G
ATOM	14010	CE2	PHE	G	754	70.041	66.361	54.854	1.00	77.81	G
ATOM	14011	CZ	PHE	G	754	70.827	65.579	55.692	1.00	77.81	G
ATOM	14012	C	PHE	G	754	66.318	64.977	52.875	1.00	39.13	G
ATOM	14013	O	PHE	G	754	66.154	65.713	53.849	1.00	39.13	G
ATOM	14014	N	ALA	G	755	65.907	65.295	51.643	1.00	38.20	G
ATOM	14015	CA	ALA	G	755	65.231	66.570	51.347	1.00	38.20	G
ATOM	14016	CB	ALA	G	755	65.105	66.761	49.844	1.00	100.07	G
ATOM	14017	C	ALA	G	755	63.851	66.699	52.001	1.00	38.20	G
ATOM	14018	O	ALA	G	755	63.132	67.675	51.800	1.00	38.20	G
ATOM	14019	N	GLN	G	756	63.494	65.693	52.779	1.00	45.28	G
ATOM	14020	CA	GLN	G	756	62.237	65.669	53.487	1.00	45.28	G
ATOM	14021	CB	GLN	G	756	61.710	64.241	53.534	1.00	49.70	G
ATOM	14022	CG	GLN	G	756	60.226	64.101	53.381	1.00	49.70	G
ATOM	14023	CD	GLN	G	756	59.795	64.491	52.010	1.00	49.70	G
ATOM	14024	OE1	GLN	G	756	60.614	64.532	51.095	1.00	49.70	G
ATOM	14025	NE2	GLN	G	756	58.503	64.771	51.841	1.00	49.70	G
ATOM	14026	C	GLN	G	756	62.609	66.115	54.892	1.00	45.28	G
ATOM	14027	O	GLN	G	756	62.048	67.067	55.432	1.00	45.28	G
ATOM	14028	N	ALA	G	757	63.577	65.410	55.467	1.00	99.84	G
ATOM	14029	CA	ALA	G	757	64.059	65.686	56.810	1.00	99.84	G
ATOM	14030	CB	ALA	G	757	65.377	64.992	57.031	1.00	100.07	G
ATOM	14031	C	ALA	G	757	64.210	67.174	57.063	1.00	99.84	G
ATOM	14032	O	ALA	G	757	64.363	67.604	58.204	1.00	99.84	G
ATOM	14033	N	GLU	G	758	64.186	67.959	55.993	1.00	26.91	G
ATOM	14034	CA	GLU	G	758	64.295	69.403	56.117	1.00	26.91	G
ATOM	14035	CB	GLU	G	758	65.573	69.898	55.440	1.00	83.00	G
ATOM	14036	CG	GLU	G	758	65.950	69.148	54.180	1.00	83.00	G
ATOM	14037	CD	GLU	G	758	67.354	69.483	53.715	1.00	83.00	G
ATOM	14038	OE1	GLU	G	758	68.296	69.353	54.524	1.00	83.00	G
ATOM	14039	OE2	GLU	G	758	67.520	69.871	52.543	1.00	83.00	G
ATOM	14040	C	GLU	G	758	63.060	70.060	55.516	1.00	26.91	G
ATOM	14041	O	GLU	G	758	62.695	71.177	55.881	1.00	26.91	G
ATOM	14042	N	ALA	G	759	62.416	69.353	54.595	1.00	27.38	G
ATOM	14043	CA	ALA	G	759	61.210	69.857	53.968	1.00	27.38	G
ATOM	14044	CB	ALA	G	759	60.796	68.940	52.854	1.00	83.74	G
ATOM	14045	C	ALA	G	759	60.134	69.903	55.044	1.00	27.38	G
ATOM	14046	O	ALA	G	759	59.373	70.864	55.131	1.00	27.38	G
ATOM	14047	N	ARG	G	760	60.079	68.857	55.865	1.00	54.39	G
ATOM	14048	CA	ARG	G	760	59.104	68.784	56.952	1.00	54.39	G
ATOM	14049	CB	ARG	G	760	58.176	67.563	56.787	1.00	87.50	G
ATOM	14050	CG	ARG	G	760	58.863	66.196	56.844	1.00	87.50	G
ATOM	14051	CD	ARG	G	760	57.868	65.039	57.050	1.00	87.50	G
ATOM	14052	NE	ARG	G	760	57.108	65.177	58.293	1.00	87.50	G
ATOM	14053	CZ	ARG	G	760	56.325	64.235	58.808	1.00	87.50	G
ATOM	14054	NH1	ARG	G	760	56.194	63.068	58.191	1.00	87.50	G
ATOM	14055	NH2	ARG	G	760	55.669	64.465	59.939	1.00	87.50	G
ATOM	14056	C	ARG	G	760	59.818	68.723	58.307	1.00	54.39	G
ATOM	14057	O	ARG	G	760	60.204	67.655	58.778	1.00	54.39	G
ATOM	14058	N	ILE	G	761	59.977	69.892	58.920	1.00	83.15	G
ATOM	14059	CA	ILE	G	761	60.655	70.069	60.205	1.00	83.15	G
ATOM	14060	CB	ILE	G	761	62.057	69.383	60.248	1.00	23.93	G
ATOM	14061	CG2	ILE	G	761	63.066	70.245	61.019	1.00	23.93	G
ATOM	14062	CG1	ILE	G	761	61.957	67.994	60.872	1.00	23.93	G
ATOM	14063	CD	ILE	G	761	63.283	67.234	60.868	1.00	23.93	G
ATOM	14064	C	ILE	G	761	60.909	71.552	60.253	1.00	83.15	G
ATOM	14065	O	ILE	G	761	60.311	72.280	61.035	1.00	83.15	G
ATOM	14066	N	GLN	G	762	61.801	71.980	59.369	1.00	50.63	G
ATOM	14067	CA	GLN	G	762	62.194	73.361	59.283	1.00	50.63	G
ATOM	14068	CB	GLN	G	762	63.702	73.446	59.035	1.00	33.97	G
ATOM	14069	CG	GLN	G	762	64.280	72.394	58.087	1.00	33.97	G
ATOM	14070	CD	GLN	G	762	65.804	72.305	58.165	1.00	33.97	G
ATOM	14071	OE1	GLN	G	762	66.514	73.233	57.780	1.00	33.97	G
ATOM	14072	NE2	GLN	G	762	66.304	71.187	58.679	1.00	33.97	G
ATOM	14073	C	GLN	G	762	61.433	74.236	58.289	1.00	50.63	G
ATOM	14074	O	GLN	G	762	61.644	75.444	58.278	1.00	50.63	G

ATOM	14075	N	MET	G	763	60.574	73.669	57.442	1.00	75.54	G
ATOM	14076	CA	MET	G	763	59.792	74.528	56.542	1.00	75.54	G
ATOM	14077	CB	MET	G	763	60.440	74.702	55.156	1.00	42.15	G
ATOM	14078	CG	MET	G	763	61.334	73.611	54.621	1.00	42.15	G
ATOM	14079	SD	MET	G	763	62.296	74.380	53.277	1.00	42.15	G
ATOM	14080	CE	MET	G	763	61.831	73.444	51.911	1.00	42.15	G
ATOM	14081	C	MET	G	763	58.327	74.152	56.387	1.00	75.54	G
ATOM	14082	O	MET	G	763	57.639	74.623	55.489	1.00	75.54	G
ATOM	14083	N	LEU	G	764	57.859	73.309	57.293	1.00	19.27	G
ATOM	14084	CA	LEU	G	764	56.462	72.879	57.324	1.00	19.27	G
ATOM	14085	CB	LEU	G	764	56.300	71.674	58.242	1.00	7.79	G
ATOM	14086	CG	LEU	G	764	54.852	71.393	58.543	1.00	7.79	G
ATOM	14087	CD1	LEU	G	764	54.225	70.721	57.366	1.00	7.79	G
ATOM	14088	CD2	LEU	G	764	54.802	70.523	59.727	1.00	7.79	G
ATOM	14089	C	LEU	G	764	55.745	74.048	57.946	1.00	19.27	G
ATOM	14090	O	LEU	G	764	56.239	74.631	58.891	1.00	19.27	G
ATOM	14091	N	SER	G	765	54.578	74.391	57.459	1.00	20.09	G
ATOM	14092	CA	SER	G	765	53.952	75.537	58.048	1.00	20.09	G
ATOM	14093	CB	SER	G	765	52.547	75.737	57.499	1.00	41.15	G
ATOM	14094	OG	SER	G	765	51.797	74.553	57.602	1.00	41.15	G
ATOM	14095	C	SER	G	765	53.928	75.456	59.561	1.00	20.09	G
ATOM	14096	O	SER	G	765	54.512	76.305	60.218	1.00	20.09	G
ATOM	14097	N	ALA	G	766	53.318	74.422	60.131	1.00	8.14	G
ATOM	14098	CA	ALA	G	766	53.192	74.341	61.593	1.00	8.14	G
ATOM	14099	CB	ALA	G	766	52.370	73.110	61.989	1.00	27.34	G
ATOM	14100	C	ALA	G	766	54.440	74.416	62.467	1.00	8.14	G
ATOM	14101	O	ALA	G	766	54.320	74.354	63.687	1.00	8.14	G
ATOM	14102	N	HIS	G	767	55.631	74.541	61.893	1.00	56.35	G
ATOM	14103	CA	HIS	G	767	56.827	74.644	62.740	1.00	56.35	G
ATOM	14104	CB	HIS	G	767	57.864	73.552	62.418	1.00	60.80	G
ATOM	14105	CG	HIS	G	767	57.333	72.153	62.488	1.00	60.80	G
ATOM	14106	CD2	HIS	G	767	57.573	71.072	61.709	1.00	60.80	G
ATOM	14107	ND1	HIS	G	767	56.457	71.736	63.466	1.00	60.80	G
ATOM	14108	CE1	HIS	G	767	56.177	70.458	63.285	1.00	60.80	G
ATOM	14109	NE2	HIS	G	767	56.842	70.031	62.227	1.00	60.80	G
ATOM	14110	C	HIS	G	767	57.495	76.001	62.560	1.00	56.35	G
ATOM	14111	O	HIS	G	767	57.615	76.789	63.504	1.00	56.35	G
ATOM	14112	N	ASN	G	768	57.920	76.266	61.331	1.00	57.30	G
ATOM	14113	CA	ASN	G	768	58.612	77.497	61.013	1.00	57.30	G
ATOM	14114	CB	ASN	G	768	59.683	77.236	59.950	1.00	100.07	G
ATOM	14115	CG	ASN	G	768	60.693	78.371	59.838	1.00	100.07	G
ATOM	14116	OD1	ASN	G	768	60.412	79.416	59.248	1.00	100.07	G
ATOM	14117	ND2	ASN	G	768	61.878	78.168	60.416	1.00	100.07	G
ATOM	14118	C	ASN	G	768	57.704	78.608	60.555	1.00	57.30	G
ATOM	14119	O	ASN	G	768	58.066	79.373	59.668	1.00	57.30	G
ATOM	14120	N	LEU	G	769	56.520	78.701	61.142	1.00	57.03	G
ATOM	14121	CA	LEU	G	769	55.618	79.780	60.769	1.00	57.03	G
ATOM	14122	CB	LEU	G	769	54.343	79.244	60.091	1.00	100.07	G
ATOM	14123	CG	LEU	G	769	54.305	79.352	58.553	1.00	100.07	G
ATOM	14124	CD1	LEU	G	769	53.026	78.778	57.965	1.00	100.07	G
ATOM	14125	CD2	LEU	G	769	54.424	80.815	58.179	1.00	100.07	G
ATOM	14126	C	LEU	G	769	55.270	80.552	62.023	1.00	57.03	G
ATOM	14127	O	LEU	G	769	55.384	81.781	62.077	1.00	57.03	G
ATOM	14128	N	LEU	G	770	54.868	79.816	63.043	1.00	76.29	G
ATOM	14129	CA	LEU	G	770	54.500	80.419	64.304	1.00	76.29	G
ATOM	14130	CB	LEU	G	770	54.107	79.308	65.277	1.00	85.89	G
ATOM	14131	CG	LEU	G	770	53.001	78.347	64.805	1.00	85.89	G
ATOM	14132	CD1	LEU	G	770	52.638	78.556	63.339	1.00	85.89	G
ATOM	14133	CD2	LEU	G	770	53.476	76.927	65.023	1.00	85.89	G
ATOM	14134	C	LEU	G	770	55.709	81.214	64.803	1.00	76.29	G
ATOM	14135	O	LEU	G	770	56.746	80.632	65.153	1.00	76.29	G
ATOM	14136	N	SER	G	771	55.567	82.540	64.824	1.00	79.21	G
ATOM	14137	CA	SER	G	771	56.645	83.434	65.241	1.00	79.21	G
ATOM	14138	CB	SER	G	771	57.364	82.892	66.490	1.00	8.81	G
ATOM	14139	OG	SER	G	771	56.532	82.849	67.636	1.00	8.81	G
ATOM	14140	C	SER	G	771	57.626	83.483	64.066	1.00	79.21	G
ATOM	14141	O	SER	G	771	58.483	82.614	63.933	1.00	79.21	G
ATOM	14142	N	PRO	G	772	57.514	84.501	63.197	1.00	69.42	G
ATOM	14143	CD	PRO	G	772	56.537	85.600	63.224	1.00	100.07	G
ATOM	14144	CA	PRO	G	772	58.390	84.648	62.032	1.00	69.42	G
ATOM	14145	CB	PRO	G	772	57.597	85.572	61.133	1.00	100.07	G
ATOM	14146	CG	PRO	G	772	57.065	86.533	62.117	1.00	100.07	G
ATOM	14147	C	PRO	G	772	59.758	85.232	62.317	1.00	69.42	G
ATOM	14148	O	PRO	G	772	60.314	85.080	63.404	1.00	69.42	G
ATOM	14149	N	ALA	G	773	60.273	85.936	61.317	1.00	37.24	G
ATOM	14150	CA	ALA	G	773	61.582	86.536	61.413	1.00	37.24	G
ATOM	14151	CB	ALA	G	773	62.305	86.331	60.113	1.00	5.07	G
ATOM	14152	C	ALA	G	773	61.520	88.018	61.793	1.00	37.24	G
ATOM	14153	O	ALA	G	773	61.762	88.907	60.982	1.00	37.24	G
ATOM	14154	N	SER	G	774	61.165	88.246	63.057	1.00	52.69	G
ATOM	14155	CA	SER	G	774	61.052	89.566	63.696	1.00	52.69	G
ATOM	14156	CB	SER	G	774	60.253	90.550	62.852	1.00	39.48	G
ATOM	14157	OG	SER	G	774	61.139	91.185	61.940	1.00	39.48	G
ATOM	14158	C	SER	G	774	60.426	89.423	65.068	1.00	52.69	G

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ATOM	14159	O	SER	G	774	59.937	90.391	65.643	1.00	52.69	G
ATOM	14160	N	GLY	G	775	60.437	88.178	65.549	1.00	44.33	G
ATOM	14161	CA	GLY	G	775	59.961	87.832	66.873	1.00	44.33	G
ATOM	14162	C	GLY	G	775	58.526	87.526	67.238	1.00	44.33	G
ATOM	14163	O	GLY	G	775	58.315	86.602	68.023	1.00	44.33	G
ATOM	14164	N	GLU	G	776	57.554	88.276	66.710	1.00	27.43	G
ATOM	14165	CA	GLU	G	776	56.147	88.065	67.082	1.00	27.43	G
ATOM	14166	CB	GLU	G	776	55.523	89.395	67.498	1.00	93.34	G
ATOM	14167	CG	GLU	G	776	55.346	90.388	66.386	1.00	93.34	G
ATOM	14168	CD	GLU	G	776	54.658	91.635	66.877	1.00	93.34	G
ATOM	14169	OE1	GLU	G	776	53.521	91.526	67.376	1.00	93.34	G
ATOM	14170	OE2	GLU	G	776	55.255	92.723	66.777	1.00	93.34	G
ATOM	14171	C	GLU	G	776	55.239	87.373	66.065	1.00	27.43	G
ATOM	14172	O	GLU	G	776	55.429	87.505	64.881	1.00	27.43	G
ATOM	14173	N	PRO	G	777	54.203	86.659	66.536	1.00	27.40	G
ATOM	14174	CD	PRO	G	777	53.578	86.842	67.855	1.00	16.98	G
ATOM	14175	CA	PRO	G	777	53.277	85.943	65.658	1.00	27.40	G
ATOM	14176	CB	PRO	G	777	51.962	85.949	66.450	1.00	16.98	G
ATOM	14177	CG	PRO	G	777	52.139	87.022	67.470	1.00	16.98	G
ATOM	14178	C	PRO	G	777	53.088	86.456	64.240	1.00	27.40	G
ATOM	14179	O	PRO	G	777	52.856	87.634	64.032	1.00	27.40	G
ATOM	14180	N	LEU	G	778	53.205	85.555	63.267	1.00	23.68	G
ATOM	14181	CA	LEU	G	778	52.998	85.886	61.863	1.00	23.68	G
ATOM	14182	CB	LEU	G	778	54.217	85.521	61.027	1.00	5.44	G
ATOM	14183	CG	LEU	G	778	54.227	85.722	59.508	1.00	5.44	G
ATOM	14184	CD1	LEU	G	778	52.972	86.414	59.067	1.00	5.44	G
ATOM	14185	CD2	LEU	G	778	55.450	86.545	59.083	1.00	5.44	G
ATOM	14186	C	LEU	G	778	51.817	85.017	61.480	1.00	23.68	G
ATOM	14187	O	LEU	G	778	51.045	85.367	60.601	1.00	23.68	G
ATOM	14188	N	ALA	G	779	51.673	83.880	62.163	1.00	27.77	G
ATOM	14189	CA	ALA	G	779	50.549	82.972	61.921	1.00	27.77	G
ATOM	14190	CB	ALA	G	779	50.931	81.548	62.305	1.00	41.16	G
ATOM	14191	C	ALA	G	779	49.364	83.443	62.772	1.00	27.77	G
ATOM	14192	O	ALA	G	779	48.674	82.643	63.404	1.00	27.77	G
ATOM	14193	N	LYS	G	780	49.140	84.753	62.797	1.00	5.38	G
ATOM	14194	CA	LYS	G	780	48.051	85.290	63.594	1.00	5.38	G
ATOM	14195	CB	LYS	G	780	48.168	86.816	63.816	1.00	69.97	G
ATOM	14196	CG	LYS	G	780	49.285	87.553	63.080	1.00	69.97	G
ATOM	14197	CD	LYS	G	780	49.016	87.666	61.589	1.00	69.97	G
ATOM	14198	CE	LYS	G	780	50.089	88.495	60.888	1.00	69.97	G
ATOM	14199	NZ	LYS	G	780	49.909	88.533	59.404	1.00	69.97	G
ATOM	14200	C	LYS	G	780	46.760	84.994	62.894	1.00	5.38	G
ATOM	14201	O	LYS	G	780	46.738	84.773	61.675	1.00	5.38	G
ATOM	14202	N	PRO	G	781	45.671	84.945	63.664	1.00	12.75	G
ATOM	14203	CD	PRO	G	781	45.693	84.795	65.129	1.00	21.48	G
ATOM	14204	CA	PRO	G	781	44.338	84.678	63.134	1.00	12.75	G
ATOM	14205	CB	PRO	G	781	43.561	84.248	64.383	1.00	21.48	G
ATOM	14206	CG	PRO	G	781	44.251	84.947	65.496	1.00	21.48	G
ATOM	14207	C	PRO	G	781	43.794	85.954	62.482	1.00	12.75	G
ATOM	14208	O	PRO	G	781	43.331	86.868	63.171	1.00	12.75	G
ATOM	14209	N	SER	G	782	43.846	86.005	61.153	1.00	11.11	G
ATOM	14210	CA	SER	G	782	43.402	87.188	60.423	1.00	11.11	G
ATOM	14211	CB	SER	G	782	43.968	87.192	59.005	1.00	100.07	G
ATOM	14212	OG	SER	G	782	43.216	86.339	58.165	1.00	100.07	G
ATOM	14213	C	SER	G	782	41.905	87.380	60.340	1.00	11.11	G
ATOM	14214	O	SER	G	782	41.138	86.734	61.056	1.00	11.11	G
ATOM	14215	N	ALA	G	783	41.523	88.300	59.458	1.00	51.63	G
ATOM	14216	CA	ALA	G	783	40.143	88.694	59.193	1.00	51.63	G
ATOM	14217	CB	ALA	G	783	40.061	89.331	57.802	1.00	58.44	G
ATOM	14218	C	ALA	G	783	39.150	87.550	59.294	1.00	51.63	G
ATOM	14219	O	ALA	G	783	39.518	86.429	59.615	1.00	51.63	G
ATOM	14220	N	ASP	G	784	37.882	87.849	59.037	1.00	50.55	G
ATOM	14221	CA	ASP	G	784	36.825	86.843	59.044	1.00	50.55	G
ATOM	14222	CB	ASP	G	784	36.885	86.065	57.713	1.00	57.04	G
ATOM	14223	CG	ASP	G	784	35.519	85.896	57.042	1.00	57.04	G
ATOM	14224	OD1	ASP	G	784	34.718	85.065	57.512	1.00	57.04	G
ATOM	14225	OD2	ASP	G	784	35.248	86.586	56.031	1.00	57.04	G
ATOM	14226	C	ASP	G	784	36.942	85.870	60.219	1.00	50.55	G
ATOM	14227	O	ASP	G	784	36.324	84.813	60.198	1.00	50.55	G
ATOM	14228	N	ILE	G	785	37.724	86.210	61.239	1.00	32.32	G
ATOM	14229	CA	ILE	G	785	37.899	85.312	62.382	1.00	32.32	G
ATOM	14230	CB	ILE	G	785	39.216	84.523	62.272	1.00	18.63	G
ATOM	14231	CG2	ILE	G	785	39.408	83.596	63.472	1.00	18.63	G
ATOM	14232	CG1	ILE	G	785	39.175	83.700	60.989	1.00	18.63	G
ATOM	14233	CD	ILE	G	785	40.440	82.951	60.689	1.00	18.63	G
ATOM	14234	C	ILE	G	785	37.940	86.166	63.619	1.00	32.32	G
ATOM	14235	O	ILE	G	785	37.302	85.880	64.653	1.00	32.32	G
ATOM	14236	N	ILE	G	786	38.722	87.224	63.524	1.00	16.56	G
ATOM	14237	CA	ILE	G	786	38.784	88.121	64.635	1.00	16.56	G
ATOM	14238	CB	ILE	G	786	39.721	89.272	64.332	1.00	16.24	G
ATOM	14239	CG2	ILE	G	786	39.651	90.296	65.456	1.00	16.24	G
ATOM	14240	CG1	ILE	G	786	41.144	88.720	64.118	1.00	16.24	G
ATOM	14241	CD	ILE	G	786	41.856	89.321	62.903	1.00	16.24	G
ATOM	14242	C	ILE	G	786	37.336	88.560	64.681	1.00	16.56	G

ATOM	14243	O	ILE	G	786	36.772	88.712	65.752	1.00	16.56	G
ATOM	14244	N	LEU	G	787	36.714	88.678	63.504	1.00	29.58	G
ATOM	14245	CA	LEU	G	787	35.304	89.086	63.422	1.00	29.58	G
ATOM	14246	CB	LEU	G	787	34.827	89.178	61.976	1.00	21.67	G
ATOM	14247	CG	LEU	G	787	33.699	90.214	61.913	1.00	21.67	G
ATOM	14248	CD1	LEU	G	787	33.549	90.786	60.513	1.00	21.67	G
ATOM	14249	CD2	LEU	G	787	32.427	89.577	62.384	1.00	21.67	G
ATOM	14250	C	LEU	G	787	34.413	88.109	64.175	1.00	29.58	G
ATOM	14251	O	LEU	G	787	33.492	88.493	64.914	1.00	29.58	G
ATOM	14252	N	GLY	G	788	34.690	86.833	63.974	1.00	35.27	G
ATOM	14253	CA	GLY	G	788	33.924	85.829	64.669	1.00	35.27	G
ATOM	14254	C	GLY	G	788	34.175	86.014	66.142	1.00	35.27	G
ATOM	14255	O	GLY	G	788	33.361	86.603	66.838	1.00	35.27	G
ATOM	14256	N	LEU	G	789	35.327	85.548	66.600	1.00	31.55	G
ATOM	14257	CA	LEU	G	789	35.681	85.621	68.008	1.00	31.55	G
ATOM	14258	CB	LEU	G	789	37.169	85.334	68.159	1.00	14.08	G
ATOM	14259	CG	LEU	G	789	37.534	83.938	67.655	1.00	14.08	G
ATOM	14260	CD1	LEU	G	789	39.001	83.644	67.897	1.00	14.08	G
ATOM	14261	CD2	LEU	G	789	36.686	82.918	68.366	1.00	14.08	G
ATOM	14262	C	LEU	G	789	35.303	86.912	68.744	1.00	31.55	G
ATOM	14263	O	LEU	G	789	35.149	86.915	69.976	1.00	31.55	G
ATOM	14264	N	TYR	G	790	35.146	88.008	68.003	1.00	24.55	G
ATOM	14265	CA	TYR	G	790	34.769	89.272	68.625	1.00	24.55	G
ATOM	14266	CB	TYR	G	790	34.790	90.401	67.606	1.00	16.62	G
ATOM	14267	CG	TYR	G	790	34.931	91.765	68.214	1.00	16.62	G
ATOM	14268	CD1	TYR	G	790	34.658	92.901	67.478	1.00	16.62	G
ATOM	14269	CE1	TYR	G	790	34.828	94.155	68.016	1.00	16.62	G
ATOM	14270	CD2	TYR	G	790	35.371	91.916	69.516	1.00	16.62	G
ATOM	14271	CE2	TYR	G	790	35.549	93.161	70.074	1.00	16.62	G
ATOM	14272	CZ	TYR	G	790	35.273	94.284	69.322	1.00	16.62	G
ATOM	14273	OH	TYR	G	790	35.457	95.541	69.878	1.00	16.62	G
ATOM	14274	C	TYR	G	790	33.350	89.074	69.112	1.00	24.55	G
ATOM	14275	O	TYR	G	790	33.121	88.743	70.273	1.00	24.55	G
ATOM	14276	N	TYR	G	791	32.409	89.262	68.192	1.00	26.86	G
ATOM	14277	CA	TYR	G	791	30.979	89.096	68.444	1.00	26.86	G
ATOM	14278	CB	TYR	G	791	30.298	88.618	67.166	1.00	36.91	G
ATOM	14279	CG	TYR	G	791	29.405	89.611	66.493	1.00	36.91	G
ATOM	14280	CD1	TYR	G	791	29.922	90.593	65.666	1.00	36.91	G
ATOM	14281	CE1	TYR	G	791	29.080	91.494	65.007	1.00	36.91	G
ATOM	14282	CD2	TYR	G	791	28.028	89.546	66.659	1.00	36.91	G
ATOM	14283	CE2	TYR	G	791	27.173	90.440	66.012	1.00	36.91	G
ATOM	14284	CZ	TYR	G	791	27.700	91.416	65.184	1.00	36.91	G
ATOM	14285	OH	TYR	G	791	26.853	92.313	64.542	1.00	36.91	G
ATOM	14286	C	TYR	G	791	30.660	88.091	69.562	1.00	26.86	G
ATOM	14287	O	TYR	G	791	29.657	88.229	70.256	1.00	26.86	G
ATOM	14288	N	ILE	G	792	31.501	87.070	69.710	1.00	27.61	G
ATOM	14289	CA	ILE	G	792	31.312	86.037	70.717	1.00	27.61	G
ATOM	14290	CB	ILE	G	792	32.137	84.780	70.365	1.00	95.47	G
ATOM	14291	CG2	ILE	G	792	31.735	83.605	71.237	1.00	95.47	G
ATOM	14292	CG1	ILE	G	792	31.895	84.407	68.911	1.00	95.47	G
ATOM	14293	CD	ILE	G	792	30.433	84.282	68.576	1.00	95.47	G
ATOM	14294	C	ILE	G	792	31.783	86.557	72.059	1.00	27.61	G
ATOM	14295	O	ILE	G	792	31.990	85.792	72.997	1.00	27.61	G
ATOM	14296	N	THR	G	793	31.956	87.864	72.166	1.00	29.38	G
ATOM	14297	CA	THR	G	793	32.438	88.415	73.419	1.00	29.38	G
ATOM	14298	CB	THR	G	793	33.967	88.257	73.523	1.00	26.93	G
ATOM	14299	OG1	THR	G	793	34.437	87.284	72.570	1.00	26.93	G
ATOM	14300	CG2	THR	G	793	34.340	87.825	74.924	1.00	26.93	G
ATOM	14301	C	THR	G	793	32.118	89.888	73.595	1.00	29.38	G
ATOM	14302	O	THR	G	793	32.703	90.727	72.939	1.00	29.38	G
ATOM	14303	N	GLN	G	794	31.194	90.218	74.477	1.00	34.55	G
ATOM	14304	CA	GLN	G	794	30.890	91.621	74.685	1.00	34.55	G
ATOM	14305	CB	GLN	G	794	30.151	92.188	73.469	1.00	41.57	G
ATOM	14306	CG	GLN	G	794	31.074	92.784	72.417	1.00	41.57	G
ATOM	14307	CD	GLN	G	794	31.762	94.075	72.880	1.00	41.57	G
ATOM	14308	OE1	GLN	G	794	32.257	94.173	74.012	1.00	41.57	G
ATOM	14309	NE2	GLN	G	794	31.808	95.069	71.989	1.00	41.57	G
ATOM	14310	C	GLN	G	794	30.095	91.910	75.949	1.00	34.55	G
ATOM	14311	O	GLN	G	794	30.647	92.188	77.021	1.00	34.55	G
ATOM	14312	N	VAL	G	795	28.790	91.812	75.785	1.00	69.62	G
ATOM	14313	CA	VAL	G	795	27.780	92.065	76.791	1.00	69.62	G
ATOM	14314	CB	VAL	G	795	28.338	92.647	78.104	1.00	60.61	G
ATOM	14315	CG1	VAL	G	795	27.197	93.133	78.987	1.00	60.61	G
ATOM	14316	CG2	VAL	G	795	29.097	91.565	78.863	1.00	60.61	G
ATOM	14317	C	VAL	G	795	27.038	93.105	75.999	1.00	69.62	G
ATOM	14318	O	VAL	G	795	27.174	93.143	74.776	1.00	69.62	G
ATOM	14319	N	ARG	G	796	26.280	93.975	76.634	1.00	47.34	G
ATOM	14320	CA	ARG	G	796	25.558	94.902	75.806	1.00	47.34	G
ATOM	14321	CB	ARG	G	796	24.277	94.237	75.307	1.00	79.01	G
ATOM	14322	CG	ARG	G	796	24.422	92.894	74.644	1.00	79.01	G
ATOM	14323	CD	ARG	G	796	23.335	92.822	73.633	1.00	79.01	G
ATOM	14324	NE	ARG	G	796	23.152	91.514	73.040	1.00	79.01	G
ATOM	14325	CZ	ARG	G	796	22.372	91.311	71.986	1.00	79.01	G
ATOM	14326	NH1	ARG	G	796	21.735	92.339	71.441	1.00	79.01	G

ATOM	14411	C	ALA G 813	9.174	91.602	86.837	1.00	77.38	G
ATOM	14412	O	ALA G 813	8.318	91.879	85.999	1.00	77.38	G
ATOM	14413	N	ALA G 814	9.308	92.263	87.988	1.00	98.94	G
ATOM	14414	CA	ALA G 814	8.441	93.394	88.314	1.00	98.94	G
ATOM	14415	CB	ALA G 814	8.872	94.060	89.609	1.00	60.22	G
ATOM	14416	C	ALA G 814	8.634	94.349	87.170	1.00	98.94	G
ATOM	14417	O	ALA G 814	7.774	95.176	86.868	1.00	98.94	G
ATOM	14418	N	ALA G 815	9.795	94.213	86.543	1.00	100.07	G
ATOM	14419	CA	ALA G 815	10.169	95.025	85.405	1.00	100.07	G
ATOM	14420	CB	ALA G 815	11.559	95.595	85.616	1.00	100.07	G
ATOM	14421	C	ALA G 815	10.151	94.110	84.194	1.00	100.07	G
ATOM	14422	O	ALA G 815	9.588	94.445	83.148	1.00	100.07	G
ATOM	14423	N	ALA G 816	10.782	92.951	84.345	1.00	69.38	G
ATOM	14424	CA	ALA G 816	10.810	91.985	83.268	1.00	69.38	G
ATOM	14425	CB	ALA G 816	11.576	90.745	83.684	1.00	100.07	G
ATOM	14426	C	ALA G 816	9.352	91.653	83.034	1.00	69.38	G
ATOM	14427	O	ALA G 816	8.793	90.752	83.668	1.00	69.38	G
ATOM	14428	N	ALA G 817	8.740	92.416	82.137	1.00	100.07	G
ATOM	14429	CA	ALA G 817	7.335	92.256	81.788	1.00	100.07	G
ATOM	14430	CB	ALA G 817	6.468	92.273	83.047	1.00	100.07	G
ATOM	14431	C	ALA G 817	6.952	93.413	80.874	1.00	100.07	G
ATOM	14432	O	ALA G 817	5.852	93.436	80.317	1.00	100.07	G
ATOM	14433	N	ALA G 818	7.877	94.365	80.744	1.00	83.84	G
ATOM	14434	CA	ALA G 818	7.718	95.560	79.913	1.00	83.84	G
ATOM	14435	CB	ALA G 818	6.302	96.119	80.026	1.00	100.07	G
ATOM	14436	C	ALA G 818	8.723	96.608	80.375	1.00	83.84	G
ATOM	14437	O	ALA G 818	8.722	97.012	81.541	1.00	83.84	G
ATOM	14438	N	GLY G 819	9.585	97.038	79.459	1.00	92.75	G
ATOM	14439	CA	GLY G 819	10.585	98.037	79.794	1.00	92.75	G
ATOM	14440	C	GLY G 819	11.473	97.667	80.972	1.00	92.75	G
ATOM	14441	O	GLY G 819	11.377	96.567	81.517	1.00	92.75	G
ATOM	14442	N	ALA G 820	12.345	98.594	81.358	1.00	71.25	G
ATOM	14443	CA	ALA G 820	13.262	98.387	82.475	1.00	71.25	G
ATOM	14444	CB	ALA G 820	12.479	98.234	83.759	1.00	78.61	G
ATOM	14445	C	ALA G 820	14.178	97.183	82.286	1.00	71.25	G
ATOM	14446	O	ALA G 820	14.258	96.322	83.164	1.00	71.25	G
ATOM	14447	N	ALA G 821	14.881	97.149	81.150	1.00	100.07	G
ATOM	14448	CA	ALA G 821	15.809	96.063	80.788	1.00	100.07	G
ATOM	14449	CB	ALA G 821	16.166	96.157	79.296	1.00	100.07	G
ATOM	14450	C	ALA G 821	17.099	95.975	81.618	1.00	100.07	G
ATOM	14451	O	ALA G 821	17.278	96.694	82.605	1.00	100.07	G
ATOM	14452	N	ALA G 822	17.999	95.089	81.196	1.00	100.07	G
ATOM	14453	CA	ALA G 822	19.264	94.872	81.899	1.00	100.07	G
ATOM	14454	CB	ALA G 822	19.765	93.457	81.611	1.00	100.07	G
ATOM	14455	C	ALA G 822	20.361	95.897	81.574	1.00	100.07	G
ATOM	14456	O	ALA G 822	21.342	95.577	80.890	1.00	100.07	G
ATOM	14457	N	ALA G 823	20.206	97.118	82.082	1.00	99.87	G
ATOM	14458	CA	ALA G 823	21.179	98.177	81.831	1.00	99.87	G
ATOM	14459	CB	ALA G 823	20.653	99.114	80.741	1.00	100.07	G
ATOM	14460	C	ALA G 823	21.493	98.973	83.094	1.00	99.87	G
ATOM	14461	O	ALA G 823	21.013	100.096	83.251	1.00	99.87	G
ATOM	14462	N	ALA G 824	22.302	98.387	83.978	1.00	100.07	G
ATOM	14463	CA	ALA G 824	22.710	98.998	85.251	1.00	100.07	G
ATOM	14464	CB	ALA G 824	22.729	100.523	85.143	1.00	59.03	G
ATOM	14465	C	ALA G 824	21.851	98.569	86.449	1.00	100.07	G
ATOM	14466	O	ALA G 824	22.259	97.685	87.200	1.00	100.07	G
ATOM	14467	N	ALA G 825	20.676	99.184	86.622	1.00	78.72	G
ATOM	14468	CA	ALA G 825	19.775	98.866	87.742	1.00	78.72	G
ATOM	14469	CB	ALA G 825	18.897	97.659	87.411	1.00	5.07	G
ATOM	14470	C	ALA G 825	20.590	98.589	89.001	1.00	78.72	G
ATOM	14471	O	ALA G 825	21.112	97.487	89.189	1.00	78.72	G
ATOM	14472	N	ALA G 826	20.673	99.594	89.866	1.00	100.07	G
ATOM	14473	CA	ALA G 826	21.458	99.524	91.096	1.00	100.07	G
ATOM	14474	CB	ALA G 826	21.509	100.907	91.732	1.00	100.07	G
ATOM	14475	C	ALA G 826	21.106	98.491	92.165	1.00	100.07	G
ATOM	14476	O	ALA G 826	20.024	97.899	92.183	1.00	100.07	G
ATOM	14477	N	ALA G 827	22.073	98.302	93.058	1.00	100.00	G
ATOM	14478	CA	ALA G 827	21.997	97.393	94.199	1.00	100.00	G
ATOM	14479	CB	ALA G 827	21.977	95.938	93.736	1.00	59.82	G
ATOM	14480	C	ALA G 827	23.269	97.697	94.995	1.00	100.00	G
ATOM	14481	O	ALA G 827	23.587	98.868	95.211	1.00	100.00	G
ATOM	14482	N	ALA G 328	23.996	96.667	95.426	1.00	100.07	G
ATOM	14483	CA	ALA G 828	25.246	96.877	96.172	1.00	100.07	G
ATOM	14484	CB	ALA G 828	25.485	95.734	97.170	1.00	100.07	G
ATOM	14485	C	ALA G 828	26.393	96.951	95.161	1.00	100.07	G
ATOM	14486	O	ALA G 828	27.516	97.357	95.491	1.00	100.07	G
ATOM	14487	N	ALA G 829	26.072	96.543	93.930	1.00	100.07	G
ATOM	14488	CA	ALA G 829	26.980	96.545	92.782	1.00	100.07	G
ATOM	14489	CB	ALA G 829	27.730	95.209	92.674	1.00	46.71	G
ATOM	14490	C	ALA G 829	26.099	96.757	91.548	1.00	100.07	G
ATOM	14491	O	ALA G 829	26.581	97.145	90.484	1.00	100.07	G
ATOM	14492	N	ALA G 830	24.801	96.502	91.726	1.00	98.89	G
ATOM	14493	CA	ALA G 830	23.780	96.640	90.683	1.00	98.89	G
ATOM	14494	CB	ALA G 830	24.032	97.918	89.862	1.00	32.06	G

ATOM	14495	C	ALA	G	830	23.721	95.410	89.767	1.00	98.89	G
ATOM	14496	O	ALA	G	830	24.370	94.395	90.037	1.00	98.89	G
ATOM	14497	N	GLY	G	831	22.918	95.489	88.707	1.00	99.91	G
ATOM	14498	CA	GLY	G	831	22.836	94.380	87.769	1.00	99.91	G
ATOM	14499	C	GLY	G	831	21.501	93.698	87.547	1.00	99.91	G
ATOM	14500	O	GLY	G	831	20.659	93.637	88.437	1.00	99.91	G
ATOM	14501	N	ALA	G	832	21.316	93.177	86.339	1.00	100.01	G
ATOM	14502	CA	ALA	G	832	20.098	92.467	85.977	1.00	100.01	G
ATOM	14503	CB	ALA	G	832	19.354	93.219	84.891	1.00	84.40	G
ATOM	14504	C	ALA	G	832	20.487	91.072	85.490	1.00	100.01	G
ATOM	14505	O	ALA	G	832	19.935	90.551	84.517	1.00	100.01	G
ATOM	14506	N	ALA	G	833	21.476	90.495	86.165	1.00	78.13	G
ATOM	14507	CA	ALA	G	833	21.956	89.155	85.865	1.00	78.13	G
ATOM	14508	CB	ALA	G	833	23.428	89.170	85.624	1.00	20.38	G
ATOM	14509	C	ALA	G	833	21.642	88.378	87.127	1.00	78.13	G
ATOM	14510	O	ALA	G	833	22.520	87.767	87.744	1.00	78.13	G
ATOM	14511	N	ALA	G	934	20.370	88.444	87.512	1.00	100.07	G
ATOM	14512	CA	ALA	G	834	19.857	87.781	88.701	1.00	100.07	G
ATOM	14513	CB	ALA	G	834	18.708	88.588	89.276	1.00	59.74	G
ATOM	14514	C	ALA	G	834	19.395	86.365	88.372	1.00	100.07	G
ATOM	14515	O	ALA	G	834	19.479	85.469	89.213	1.00	100.07	G
ATOM	14516	N	ALA	G	835	18.898	86.175	87.151	1.00	61.36	G
ATOM	14517	CA	ALA	G	835	18.444	84.865	86.685	1.00	61.36	G
ATOM	14518	CB	ALA	G	835	17.337	85.047	85.653	1.00	96.27	G
ATOM	14519	C	ALA	G	835	19.635	84.101	86.071	1.00	61.36	G
ATOM	14520	O	ALA	G	835	19.711	83.913	84.846	1.00	61.36	G
ATOM	14521	N	ALA	G	836	20.565	83.679	86.932	1.00	43.72	G
ATOM	14522	CA	ALA	G	836	21.767	82.962	86.507	1.00	43.72	G
ATOM	14523	CB	ALA	G	836	22.849	83.953	86.087	1.00	50.53	G
ATOM	14524	C	ALA	G	836	22.327	82.013	87.571	1.00	43.72	G
ATOM	14525	O	ALA	G	836	22.268	82.277	88.777	1.00	43.72	G
ATOM	14526	N	GLY	G	837	22.879	80.904	87.087	1.00	85.16	G
ATOM	14527	CA	GLY	G	837	23.466	79.883	87.938	1.00	85.16	G
ATOM	14528	C	GLY	G	837	24.560	79.178	87.153	1.00	85.16	G
ATOM	14529	O	GLY	G	837	24.566	79.228	85.918	1.00	85.16	G
ATOM	14530	N	ALA	G	838	25.478	78.517	87.852	1.00	66.54	G
ATOM	14531	CA	ALA	G	838	26.583	77.838	87.185	1.00	66.54	G
ATOM	14532	CB	ALA	G	838	27.829	78.693	87.277	1.00	100.07	G
ATOM	14533	C	ALA	G	838	26.873	76.444	87.727	1.00	66.54	G
ATOM	14534	O	ALA	G	838	26.427	76.094	88.814	1.00	66.54	G
ATOM	14535	N	ALA	G	839	27.644	75.669	86.959	1.00	89.68	G
ATOM	14536	CA	ALA	G	839	28.014	74.294	87.314	1.00	89.68	G
ATOM	14537	CB	ALA	G	839	28.158	73.456	86.031	1.00	45.77	G
ATOM	14538	C	ALA	G	839	29.294	74.186	88.163	1.00	89.68	G
ATOM	14539	O	ALA	G	839	30.054	75.154	88.293	1.00	89.68	G
ATOM	14540	N	ALA	G	840	29.522	73.000	88.737	1.00	100.07	G
ATOM	14541	CA	ALA	G	840	30.698	72.747	89.584	1.00	100.07	G
ATOM	14542	CB	ALA	G	840	30.292	71.879	90.831	1.00	5.07	G
ATOM	14543	C	ALA	G	840	31.842	72.075	88.806	1.00	100.07	G
ATOM	14544	O	ALA	G	840	31.603	71.170	87.998	1.00	100.07	G
ATOM	14545	N	ALA	G	841	33.077	72.523	89.053	1.00	100.07	G
ATOM	14546	CA	ALA	G	841	34.269	71.987	88.379	1.00	100.07	G
ATOM	14547	CB	ALA	G	841	35.514	72.775	88.805	1.00	100.07	G
ATOM	14548	C	ALA	G	841	34.481	70.489	88.635	1.00	100.07	G
ATOM	14549	O	ALA	G	841	34.902	70.078	89.722	1.00	100.07	G
ATOM	14550	N	ALA	G	842	34.200	69.683	87.613	1.00	100.07	G
ATOM	14551	CA	ALA	G	842	34.329	68.235	87.714	1.00	100.07	G
ATOM	14552	CB	ALA	G	842	33.067	67.663	88.354	1.00	47.21	G
ATOM	14553	C	ALA	G	842	34.579	67.558	86.358	1.00	100.07	G
ATOM	14554	O	ALA	G	842	34.214	66.389	86.176	1.00	100.07	G
ATOM	14555	N	ALA	G	843	35.200	68.296	85.429	1.00	83.68	G
ATOM	14556	CA	ALA	G	843	35.535	67.842	84.063	1.00	83.68	G
ATOM	14557	CB	ALA	G	843	34.731	66.594	83.679	1.00	100.07	G
ATOM	14558	C	ALA	G	843	35.219	68.971	83.088	1.00	83.68	G
ATOM	14559	O	ALA	G	843	36.070	69.804	82.775	1.00	83.68	G
ATOM	14560	N	ALA	G	844	33.983	68.976	82.605	1.00	100.07	G
ATOM	14561	CA	ALA	G	844	33.514	70.012	81.700	1.00	100.07	G
ATOM	14562	CB	ALA	G	844	32.724	69.386	80.534	1.00	34.11	G
ATOM	14563	C	ALA	G	844	32.613	70.903	82.568	1.00	100.07	G
ATOM	14564	O	ALA	G	844	31.675	70.409	83.211	1.00	100.07	G
ATOM	14565	N	ALA	G	845	32.912	72.204	82.602	1.00	100.07	G
ATOM	14566	CA	ALA	G	845	32.148	73.160	83.413	1.00	100.07	G
ATOM	14567	CB	ALA	G	845	33.097	73.915	84.335	1.00	85.18	G
ATOM	14568	C	ALA	G	845	31.288	74.162	82.626	1.00	100.07	G
ATOM	14569	O	ALA	G	845	31.410	74.279	81.403	1.00	100.07	G
ATOM	14570	N	ALA	G	846	30.421	74.881	83.344	1.00	76.95	G
ATOM	14571	CA	ALA	G	846	29.536	75.871	82.737	1.00	76.95	G
ATOM	14572	CB	ALA	G	846	30.352	77.027	82.201	1.00	22.44	G
ATOM	14573	C	ALA	G	846	28.745	75.244	81.602	1.00	76.95	G
ATOM	14574	O	ALA	G	846	28.201	75.953	80.754	1.00	76.95	G
ATOM	14575	N	ALA	G	847	28.689	73.914	81.592	1.00	82.66	G
ATOM	14576	CA	ALA	G	847	27.996	73.167	80.545	1.00	82.66	G
ATOM	14577	CB	ALA	G	847	28.336	71.669	80.659	1.00	5.07	G
ATOM	14578	C	ALA	G	847	26.483	73.376	80.541	1.00	82.66	G

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ATOM	14579	O	ALA	G	847	25.814	73.082	79.550	1.00	82.66	G
ATOM	14580	N	ALA	G	848	25.950	73.897	81.641	1.00	72.60	G
ATOM	14581	CA	ALA	G	848	24.516	74.144	81.748	1.00	72.60	G
ATOM	14582	CB	ALA	G	848	24.069	73.945	83.187	1.00	94.69	G
ATOM	14583	C	ALA	G	848	24.142	75.551	81.272	1.00	72.60	G
ATOM	14584	O	ALA	G	848	22.965	75.870	81.111	1.00	72.60	G
ATOM	14585	N	ALA	G	849	25.150	76.385	81.044	1.00	34.26	G
ATOM	14586	CA	ALA	G	849	24.931	77.754	80.602	1.00	34.26	G
ATOM	14587	CB	ALA	G	849	25.918	78.677	81.287	1.00	39.16	G
ATOM	14588	C	ALA	G	849	25.065	77.877	79.092	1.00	34.26	G
ATOM	14589	O	ALA	G	849	24.208	78.451	78.427	1.00	34.26	G
ATOM	14590	N	ALA	G	850	26.153	77.355	78.544	1.00	60.24	G
ATOM	14591	CA	ALA	G	850	26.334	77.430	77.106	1.00	60.24	G
ATOM	14592	CB	ALA	G	850	27.637	76.722	76.697	1.00	20.96	G
ATOM	14593	C	ALA	G	850	25.103	76.739	76.510	1.00	60.24	G
ATOM	14594	O	ALA	G	850	24.624	77.099	75.430	1.00	60.24	G
ATOM	14595	N	ALA	G	851	24.586	75.757	77.250	1.00	53.83	G
ATOM	14596	CA	ALA	G	851	23.400	75.007	76.849	1.00	53.83	G
ATOM	14597	CB	ALA	G	851	23.416	73.625	77.481	1.00	62.17	G
ATOM	14598	C	ALA	G	851	22.191	75.799	77.338	1.00	53.83	G
ATOM	14599	O	ALA	G	851	21.104	75.748	76.754	1.00	53.83	G
ATOM	14600	N	ALA	G	852	22.378	76.524	78.435	1.00	66.34	G
ATOM	14601	CA	ALA	G	852	21.299	77.348	78.939	1.00	66.34	G
ATOM	14602	CB	ALA	G	852	21.785	78.206	80.088	1.00	52.64	G
ATOM	14603	C	ALA	G	852	20.964	78.213	77.730	1.00	66.34	G
ATOM	14604	O	ALA	G	852	19.809	78.303	77.310	1.00	66.34	G
ATOM	14605	N	ALA	G	853	22.012	78.815	77.162	1.00	33.20	G
ATOM	14606	CA	ALA	G	853	21.914	79.670	75.982	1.00	33.20	G
ATOM	14607	CB	ALA	G	853	23.315	80.047	75.502	1.00	5.07	G
ATOM	14608	C	ALA	G	853	21.168	78.938	74.873	1.00	33.20	G
ATOM	14609	O	ALA	G	853	20.368	79.535	74.153	1.00	33.20	G
ATOM	14610	N	ALA	G	854	21.436	77.637	74.755	1.00	64.50	G
ATOM	14611	CA	ALA	G	854	20.827	76.804	73.724	1.00	64.50	G
ATOM	14612	CB	ALA	G	854	21.117	75.344	73.977	1.00	18.45	G
ATOM	14613	C	ALA	G	854	19.339	77.016	73.610	1.00	64.50	G
ATOM	14614	O	ALA	G	854	18.900	77.858	72.835	1.00	64.50	G
ATOM	14615	N	ALA	G	855	18.560	76.255	74.373	1.00	66.03	G
ATOM	14616	CA	ALA	G	855	17.107	76.387	74.317	1.00	66.03	G
ATOM	14617	CB	ALA	G	855	16.448	75.572	75.456	1.00	8.00	G
ATOM	14618	C	ALA	G	855	16.730	77.874	74.392	1.00	66.03	G
ATOM	14619	O	ALA	G	855	16.534	78.434	75.464	1.00	66.03	G
ATOM	14620	N	GLY	G	856	16.668	78.496	73.219	1.00	76.46	G
ATOM	14621	CA	GLY	G	856	16.337	79.904	73.077	1.00	76.46	G
ATOM	14622	C	GLY	G	856	16.235	80.810	74.290	1.00	76.46	G
ATOM	14623	O	GLY	G	856	15.143	81.240	74.654	1.00	76.46	G
ATOM	14624	N	ALA	G	857	17.363	81.121	74.913	1.00	100.07	G
ATOM	14625	CA	ALA	G	857	17.369	82.008	76.073	1.00	100.07	G
ATOM	14626	CB	ALA	G	857	16.901	81.254	77.322	1.00	16.13	G
ATOM	14627	C	ALA	G	857	18.788	82.543	76.259	1.00	100.07	G
ATOM	14628	O	ALA	G	857	19.762	81.815	76.042	1.00	100.07	G
ATOM	14629	N	ALA	G	858	18.911	83.811	76.652	1.00	77.23	G
ATOM	14630	CA	ALA	G	858	20.231	84.419	76.830	1.00	77.23	G
ATOM	14631	CB	ALA	G	858	20.993	83.713	77.982	1.00	5.07	G
ATOM	14632	C	ALA	G	858	20.977	84.263	75.496	1.00	77.23	G
ATOM	14633	O	ALA	G	858	21.750	83.327	75.316	1.00	77.23	G
ATOM	14634	N	ALA	G	859	20.726	85.187	74.571	1.00	84.29	G
ATOM	14635	CA	ALA	G	859	21.319	85.160	73.235	1.00	84.29	G
ATOM	14636	CB	ALA	G	859	20.999	86.453	72.491	1.00	13.60	G
ATOM	14637	C	ALA	G	859	22.813	84.883	73.157	1.00	84.29	G
ATOM	14638	O	ALA	G	859	23.388	84.937	72.068	1.00	84.29	G
ATOM	14639	N	ALA	G	860	23.442	84.605	74.298	1.00	66.13	G
ATOM	14640	CA	ALA	G	860	24.870	84.275	74.354	1.00	66.13	G
ATOM	14641	CB	ALA	G	860	25.172	83.070	73.458	1.00	100.07	G
ATOM	14642	C	ALA	G	860	25.853	85.380	74.031	1.00	66.13	G
ATOM	14643	O	ALA	G	860	26.915	85.420	74.647	1.00	66.13	G
ATOM	14644	N	ALA	G	861	25.523	86.241	73.057	1.00	46.95	G
ATOM	14645	CA	ALA	G	861	26.394	87.354	72.645	1.00	46.95	G
ATOM	14646	CB	ALA	G	861	25.728	88.222	71.566	1.00	5.07	G
ATOM	14647	C	ALA	G	861	26.658	88.185	73.864	1.00	46.95	G
ATOM	14648	O	ALA	G	861	26.401	89.387	73.880	1.00	46.95	G
ATOM	14649	N	ALA	G	862	27.172	87.512	74.885	1.00	100.07	G
ATOM	14650	CA	ALA	G	862	27.483	88.115	76.155	1.00	100.07	G
ATOM	14651	CB	ALA	G	862	28.612	89.105	75.984	1.00	100.07	G
ATOM	14652	C	ALA	G	862	26.234	88.793	76.698	1.00	100.07	G
ATOM	14653	O	ALA	G	862	25.741	89.773	76.136	1.00	100.07	G
ATOM	14654	N	ALA	G	863	25.704	88.242	77.779	1.00	51.13	G
ATOM	14655	CA	ALA	G	863	24.522	88.806	78.391	1.00	51.13	G
ATOM	14656	CB	ALA	G	863	23.486	87.729	78.589	1.00	40.03	G
ATOM	14657	C	ALA	G	863	24.986	89.361	79.728	1.00	51.13	G
ATOM	14658	O	ALA	G	863	24.372	90.273	80.312	1.00	51.13	G
ATOM	14659	N	ALA	G	864	26.107	88.803	80.176	1.00	59.26	G
ATOM	14660	CA	ALA	G	864	26.738	89.155	81.440	1.00	59.26	G
ATOM	14661	CB	ALA	G	864	26.681	90.666	81.667	1.00	11.63	G
ATOM	14662	C	ALA	G	864	26.025	88.403	82.559	1.00	59.26	G

ATOM	14663	O	ALA G 864	25.530	88.997	83.506	1.00	59.26	G
ATOM	14664	N	ALA G 865	25.973	87.082	82.422	1.00	87.91	G
ATOM	14665	CA	ALA G 865	25.331	86.219	83.406	1.00	87.91	G
ATOM	14666	CB	ALA G 865	24.974	84.889	82.768	1.00	100.07	G
ATOM	14667	C	ALA G 865	26.264	85.991	84.584	1.00	87.91	G
ATOM	14668	O	ALA G 865	27.304	86.632	84.686	1.00	87.91	G
ATOM	14669	N	ALA G 866	25.894	85.076	85.474	1.00	34.71	G
ATOM	14670	CA	ALA G 866	26.731	84.788	86.632	1.00	34.71	G
ATOM	14671	CB	ALA G 866	26.005	85.176	87.923	1.00	55.51	G
ATOM	14672	C	ALA G 866	27.116	83.311	86.666	1.00	34.71	G
ATOM	14673	O	ALA G 866	26.460	82.511	87.317	1.00	34.71	G
ATOM	14674	N	ALA G 867	28.185	82.949	85.965	1.00	39.82	G
ATOM	14675	CA	ALA G 867	28.634	81.561	85.932	1.00	39.82	G
ATOM	14676	CB	ALA G 867	29.203	81.239	84.556	1.00	62.28	G
ATOM	14677	C	ALA G 867	29.664	81.244	87.019	1.00	39.82	G
ATOM	14678	O	ALA G 867	29.844	82.018	87.956	1.00	39.82	G
ATOM	14679	N	ALA G 868	30.340	80.104	86.873	1.00	64.20	G
ATOM	14680	CA	ALA G 868	31.349	79.655	87.835	1.00	64.20	G
ATOM	14681	CB	ALA G 868	30.685	78.785	88.897	1.00	84.35	G
ATOM	14682	C	ALA G 868	32.527	78.889	87.206	1.00	64.20	G
ATOM	14683	O	ALA G 868	32.466	78.469	86.047	1.00	64.20	G
ATOM	14684	N	ALA G 869	33.594	78.718	87.988	1.00	41.77	G
ATOM	14685	CA	ALA G 869	34.805	78.000	87.569	1.00	41.77	G
ATOM	14686	CB	ALA G 869	35.367	78.600	86.283	1.00	90.23	G
ATOM	14687	C	ALA G 869	35.849	78.076	88.692	1.00	41.77	G
ATOM	14688	O	ALA G 869	37.059	78.037	88.460	1.00	41.77	G
ATOM	14689	N	GLY G 870	35.357	78.165	89.919	1.00	56.34	G
ATOM	14690	CA	GLY G 870	36.231	78.268	91.065	1.00	56.34	G
ATOM	14691	C	GLY G 870	35.805	79.529	91.785	1.00	56.34	G
ATOM	14692	O	GLY G 870	36.219	79.789	92.918	1.00	56.34	G
ATOM	14693	N	ALA G 871	34.957	80.309	91.114	1.00	42.45	G
ATOM	14694	CA	ALA G 871	34.452	81.567	91.656	1.00	42.45	G
ATOM	14695	CB	ALA G 871	35.491	82.675	91.471	1.00	45.12	G
ATOM	14696	C	ALA G 871	33.166	81.952	90.947	1.00	42.45	G
ATOM	14697	O	ALA G 871	32.849	81.396	89.901	1.00	42.45	G
ATOM	14698	N	ARG G 872	32.423	82.894	91.523	1.00	72.53	G
ATOM	14699	CA	ARG G 872	31.186	83.356	90.907	1.00	72.53	G
ATOM	14700	CB	ARG G 872	30.175	83.831	91.951	1.00	99.90	G
ATOM	14701	CG	ARG G 872	29.530	82.738	92.771	1.00	99.90	G
ATOM	14702	CD	ARG G 872	28.335	83.297	93.520	1.00	99.90	G
ATOM	14703	NE	ARG G 872	27.867	82.393	94.564	1.00	99.90	G
ATOM	14704	CZ	ARG G 872	26.840	82.654	95.365	1.00	99.90	G
ATOM	14705	NH1	ARG G 872	26.174	83.790	95.237	1.00	99.90	G
ATOM	14706	NH2	ARG G 872	26.484	81.787	96.300	1.00	99.90	G
ATOM	14707	C	ARG G 872	31.537	84.523	90.013	1.00	72.53	G
ATOM	14708	O	ARG G 872	31.968	85.567	90.486	1.00	72.53	G
ATOM	14709	N	LEU G 873	31.359	84.354	88.716	1.00	73.46	G
ATOM	14710	CA	LEU G 873	31.680	85.439	87.819	1.00	73.46	G
ATOM	14711	CB	LEU G 873	32.598	84.952	86.700	1.00	57.59	G
ATOM	14712	CG	LEU G 873	34.004	84.542	87.138	1.00	57.59	G
ATOM	14713	CD1	LEU G 873	34.852	84.271	85.905	1.00	57.59	G
ATOM	14714	CD2	LEU G 873	34.630	85.650	87.992	1.00	57.59	G
ATOM	14715	C	LEU G 873	30.432	86.051	87.228	1.00	73.46	G
ATOM	14716	O	LEU G 873	29.363	85.435	87.225	1.00	73.46	G
ATOM	14717	N	ALA G 874	30.575	87.282	86.751	1.00	62.33	G
ATOM	14718	CA	ALA G 874	29.479	87.987	86.123	1.00	62.33	G
ATOM	14719	CB	ALA G 874	29.407	89.417	86.637	1.00	62.14	G
ATOM	14720	C	ALA G 874	29.782	87.953	84.628	1.00	62.33	G
ATOM	14721	O	ALA G 874	29.227	88.717	83.849	1.00	62.33	G
ATOM	14722	N	THR G 875	30.680	87.045	84.253	1.00	40.57	G
ATOM	14723	CA	THR G 875	31.112	86.818	82.868	1.00	40.57	G
ATOM	14724	CB	THR G 875	31.813	85.428	82.741	1.00	78.23	G
ATOM	14725	OG1	THR G 875	32.990	85.409	83.556	1.00	78.23	G
ATOM	14726	CG2	THR G 875	32.212	85.131	81.315	1.00	78.23	G
ATOM	14727	C	THR G 875	29.948	86.861	81.886	1.00	40.57	G
ATOM	14728	O	THR G 875	28.846	87.262	82.222	1.00	40.57	G
ATOM	14729	N	ASN G 876	30.205	86.438	80.661	1.00	47.09	G
ATOM	14730	CA	ASN G 876	29.192	86.416	79.624	1.00	47.09	G
ATOM	14731	CB	ASN G 876	29.488	87.478	78.578	1.00	100.07	G
ATOM	14732	CG	ASN G 876	30.792	87.228	77.851	1.00	100.07	G
ATOM	14733	OD1	ASN G 876	31.873	87.593	78.325	1.00	100.07	G
ATOM	14734	ND2	ASN G 876	30.697	86.590	76.694	1.00	100.07	G
ATOM	14735	C	ASN G 876	29.251	85.051	78.976	1.00	47.09	G
ATOM	14736	O	ASN G 876	30.336	84.540	78.681	1.00	47.09	G
ATOM	14737	N	PRO G 877	28.083	84.452	78.712	1.00	53.32	G
ATOM	14738	CD	PRO G 877	26.804	85.134	78.457	1.00	94.03	G
ATOM	14739	CA	PRO G 877	28.090	83.125	78.092	1.00	53.32	G
ATOM	14740	CB	PRO G 877	26.705	83.034	77.453	1.00	94.03	G
ATOM	14741	CG	PRO G 877	26.351	84.459	77.194	1.00	94.03	G
ATOM	14742	C	PRO G 877	29.217	83.031	77.086	1.00	53.32	G
ATOM	14743	O	PRO G 877	30.053	82.135	77.154	1.00	53.32	G
ATOM	14744	N	GLY G 878	29.258	84.000	76.183	1.00	84.36	G
ATOM	14745	CA	GLY G 878	30.290	84.016	75.166	1.00	84.36	G
ATOM	14746	C	GLY G 878	31.708	83.835	75.671	1.00	84.36	G

ATOM	14747	O	GLY	G	878	32.363	82.839	75.376	1.00	84.36	G
ATOM	14748	N	ALA	G	879	32.194	84.804	76.428	1.00	60.99	G
ATOM	14749	CA	ALA	G	879	33.540	84.726	76.942	1.00	60.99	G
ATOM	14750	CB	ALA	G	879	33.767	85.822	77.995	1.00	5.07	G
ATOM	14751	C	ALA	G	879	33.769	83.337	77.528	1.00	60.99	G
ATOM	14752	O	ALA	G	879	34.891	82.833	77.516	1.00	60.99	G
ATOM	14753	N	ILE	G	880	32.707	82.704	78.021	1.00	46.99	G
ATOM	14754	CA	ILE	G	880	32.842	81.369	78.595	1.00	46.99	G
ATOM	14755	CB	ILE	G	880	31.533	80.893	79.247	1.00	55.49	G
ATOM	14756	CG2	ILE	G	880	31.479	79.380	79.279	1.00	55.49	G
ATOM	14757	CG1	ILE	G	880	31.437	81.435	80.673	1.00	55.49	G
ATOM	14758	CD	ILE	G	880	32.559	80.961	81.591	1.00	55.49	G
ATOM	14759	C	ILE	G	880	33.247	80.381	77.518	1.00	46.99	G
ATOM	14760	O	ILE	G	880	34.223	79.652	77.664	1.00	46.99	G
ATOM	14761	N	LEU	G	881	32.483	80.356	76.435	1.00	31.65	G
ATOM	14762	CA	LEU	G	881	32.761	79.473	75.307	1.00	31.65	G
ATOM	14763	CB	LEU	G	881	31.857	79.866	74.146	1.00	22.42	G
ATOM	14764	CG	LEU	G	881	31.993	79.225	72.783	1.00	22.42	G
ATOM	14765	CD1	LEU	G	881	31.799	77.728	72.847	1.00	22.42	G
ATOM	14766	CD2	LEU	G	881	30.940	79.863	71.912	1.00	22.42	G
ATOM	14767	C	LEU	G	881	34.230	79.591	74.895	1.00	31.65	G
ATOM	14768	O	LEU	G	881	34.956	78.591	74.847	1.00	31.65	G
ATOM	14769	N	PHE	G	882	34.659	80.821	74.605	1.00	53.70	G
ATOM	14770	CA	PHE	G	882	36.039	81.093	74.220	1.00	53.70	G
ATOM	14771	CB	PHE	G	882	36.350	82.585	74.397	1.00	30.67	G
ATOM	14772	CG	PHE	G	882	37.700	83.006	73.861	1.00	30.67	G
ATOM	14773	CD1	PHE	G	882	37.843	84.216	73.194	1.00	30.67	G
ATOM	14774	CD2	PHE	G	882	38.829	82.209	74.025	1.00	30.67	G
ATOM	14775	CE1	PHE	G	882	39.095	84.622	72.694	1.00	30.67	G
ATOM	14776	CE2	PHE	G	882	40.080	82.612	73.526	1.00	30.67	G
ATOM	14777	CZ	PHE	G	882	40.209	83.816	72.862	1.00	30.67	G
ATOM	14778	C	PHE	G	882	36.969	80.249	75.086	1.00	53.70	G
ATOM	14779	O	PHE	G	882	37.839	79.553	74.568	1.00	53.70	G
ATOM	14780	N	ALA	G	883	36.781	80.308	76.401	1.00	51.90	G
ATOM	14781	CA	ALA	G	883	37.604	79.522	77.316	1.00	51.90	G
ATOM	14782	CB	ALA	G	883	36.893	79.343	78.654	1.00	44.21	G
ATOM	14783	C	ALA	G	883	37.882	78.158	76.694	1.00	51.90	G
ATOM	14784	O	ALA	G	883	38.882	77.991	75.987	1.00	51.90	G
ATOM	14785	N	ARG	G	884	36.999	77.192	76.960	1.00	28.10	G
ATOM	14786	CA	ARG	G	884	37.129	75.841	76.412	1.00	28.10	G
ATOM	14787	CB	ARG	G	884	35.761	75.270	76.046	1.00	80.63	G
ATOM	14788	CG	ARG	G	884	34.859	74.789	77.156	1.00	80.63	G
ATOM	14789	CD	ARG	G	884	33.455	74.718	76.573	1.00	80.63	G
ATOM	14790	NE	ARG	G	884	32.598	73.723	77.194	1.00	80.63	G
ATOM	14791	CZ	ARG	G	884	31.421	73.358	76.697	1.00	80.63	G
ATOM	14792	NH1	ARG	G	884	30.962	73.910	75.580	1.00	80.63	G
ATOM	14793	NH2	ARG	G	884	30.709	72.422	77.304	1.00	80.63	G
ATOM	14794	C	ARG	G	884	37.928	75.926	75.120	1.00	28.10	G
ATOM	14795	O	ARG	G	884	39.054	75.426	75.015	1.00	28.10	G
ATOM	14796	N	ILE	G	885	37.314	76.583	74.140	1.00	22.47	G
ATOM	14797	CA	ILE	G	885	37.914	76.737	72.835	1.00	22.47	G
ATOM	14798	CB	ILE	G	885	37.448	78.014	72.183	1.00	17.59	G
ATOM	14799	CG2	ILE	G	885	37.937	78.056	70.755	1.00	17.59	G
ATOM	14800	CG1	ILE	G	885	35.918	78.051	72.215	1.00	17.59	G
ATOM	14801	CD	ILE	G	885	35.296	79.288	71.628	1.00	17.59	G
ATOM	14802	C	ILE	G	885	39.407	76.744	73.015	1.00	22.47	G
ATOM	14803	O	ILE	G	885	40.105	75.903	72.453	1.00	22.47	G
ATOM	14804	N	VAL	G	886	39.882	77.674	73.834	1.00	15.70	G
ATOM	14805	CA	VAL	G	886	41.296	77.763	74.142	1.00	15.70	G
ATOM	14806	CB	VAL	G	886	41.651	79.115	74.750	1.00	52.29	G
ATOM	14807	CG1	VAL	G	886	42.900	78.989	75.600	1.00	52.29	G
ATOM	14808	CG2	VAL	G	886	41.883	80.114	73.651	1.00	52.29	G
ATOM	14809	C	VAL	G	886	41.627	76.677	75.149	1.00	15.70	G
ATOM	14810	O	VAL	G	886	42.557	75.902	74.959	1.00	15.70	G
ATOM	14811	N	GLY	G	887	40.862	76.627	76.227	1.00	50.56	G
ATOM	14812	CA	GLY	G	887	41.106	75.620	77.235	1.00	50.56	G
ATOM	14813	C	GLY	G	887	41.294	74.256	76.605	1.00	50.56	G
ATOM	14814	O	GLY	G	887	42.392	73.700	76.629	1.00	50.56	G
ATOM	14815	N	GLU	G	888	40.220	73.725	76.028	1.00	72.31	G
ATOM	14816	CA	GLU	G	888	40.242	72.414	75.393	1.00	72.31	G
ATOM	14817	CB	GLU	G	888	38.875	72.096	74.783	1.00	38.95	G
ATOM	14818	CG	GLU	G	888	37.821	71.769	75.829	1.00	38.95	G
ATOM	14819	CD	GLU	G	888	36.410	71.852	75.288	1.00	38.95	G
ATOM	14820	OE1	GLU	G	888	36.030	72.928	74.791	1.00	38.95	G
ATOM	14821	OE2	GLU	G	888	35.680	70.844	75.365	1.00	38.95	G
ATOM	14822	C	GLU	G	888	41.319	72.295	74.338	1.00	72.31	G
ATOM	14823	O	GLU	G	888	42.016	71.284	74.288	1.00	72.31	G
ATOM	14824	N	ALA	G	889	41.464	73.312	73.495	1.00	27.72	G
ATOM	14825	CA	ALA	G	889	42.493	73.242	72.468	1.00	27.72	G
ATOM	14826	CB	ALA	G	889	42.761	74.616	71.864	1.00	5.07	G
ATOM	14827	C	ALA	G	889	43.764	72.698	73.106	1.00	27.72	G
ATOM	14828	O	ALA	G	889	44.357	71.743	72.610	1.00	27.72	G
ATOM	14829	N	VAL	G	890	44.169	73.298	74.218	1.00	41.79	G
ATOM	14830	CA	VAL	G	890	45.371	72.871	74.922	1.00	41.79	G

ATOM	14831	CB	VAL	G	890	46.208	74.090	75.344	1.00	99.98	G
ATOM	14832	CG1	VAL	G	890	47.509	73.640	75.965	1.00	99.98	G
ATOM	14833	CG2	VAL	G	890	46.466	74.975	74.142	1.00	99.98	G
ATOM	14834	C	VAL	G	890	44.974	72.088	76.164	1.00	41.79	G
ATOM	14835	O	VAL	G	890	43.809	71.749	76.335	1.00	41.79	G
ATOM	14836	N	GLY	G	891	45.940	71.795	77.026	1.00	34.83	G
ATOM	14837	CA	GLY	G	891	45.633	71.076	78.246	1.00	34.83	G
ATOM	14838	C	GLY	G	891	44.673	71.865	79.128	1.00	34.83	G
ATOM	14839	O	GLY	G	891	45.069	72.408	80.172	1.00	34.83	G
ATOM	14840	N	ASP	G	892	43.411	71.910	78.696	1.00	63.47	G
ATOM	14841	CA	ASP	G	892	42.307	72.611	79.365	1.00	63.47	G
ATOM	14842	CB	ASP	G	892	41.343	71.594	80.013	1.00	100.07	G
ATOM	14843	CG	ASP	G	892	42.058	70.395	80.615	1.00	100.07	G
ATOM	14844	OD1	ASP	G	892	42.715	69.651	79.857	1.00	100.07	G
ATOM	14845	OD2	ASP	G	892	41.958	70.189	81.843	1.00	100.07	G
ATOM	14846	C	ASP	G	892	42.598	73.752	80.360	1.00	63.47	G
ATOM	14847	O	ASP	G	892	43.747	73.990	80.763	1.00	63.47	G
ATOM	14848	N	GLU	G	893	41.528	74.460	80.730	1.00	56.06	G
ATOM	14849	CA	GLU	G	893	41.584	75.595	81.645	1.00	56.06	G
ATOM	14850	CB	GLU	G	893	40.166	75.893	82.163	1.00	100.07	G
ATOM	14851	CG	GLU	G	893	39.183	76.338	81.054	1.00	100.07	G
ATOM	14852	CD	GLU	G	893	37.749	76.600	81.547	1.00	100.07	G
ATOM	14853	OE1	GLU	G	893	37.527	77.525	82.367	1.00	100.07	G
ATOM	14854	OE2	GLU	G	893	36.834	75.874	81.097	1.00	100.07	G
ATOM	14855	C	GLU	G	893	42.571	75.401	82.803	1.00	56.06	G
ATOM	14856	O	GLU	G	893	43.278	74.401	82.861	1.00	56.06	G
ATOM	14857	N	LYS	G	894	42.622	76.368	83.715	1.00	100.07	G
ATOM	14858	CA	LYS	G	894	43.530	76.331	84.866	1.00	100.07	G
ATOM	14859	CB	LYS	G	894	43.449	74.976	85.611	1.00	99.75	G
ATOM	14860	CG	LYS	G	894	44.554	73.940	85.291	1.00	99.75	G
ATOM	14861	CD	LYS	G	894	44.432	72.659	86.159	1.00	99.75	G
ATOM	14862	CE	LYS	G	894	45.514	71.610	85.830	1.00	99.75	G
ATOM	14863	NZ	LYS	G	894	45.452	70.399	86.710	1.00	99.75	G
ATOM	14864	C	LYS	G	894	44.957	76.591	84.392	1.00	100.07	G
ATOM	14865	O	LYS	G	894	45.714	77.327	85.027	1.00	100.07	G
ATOM	14866	N	VAL	G	895	45.311	75.980	83.268	1.00	49.89	G
ATOM	14867	CA	VAL	G	895	46.635	76.145	82.684	1.00	49.89	G
ATOM	14868	CB	VAL	G	895	47.090	74.855	81.939	1.00	99.66	G
ATOM	14869	CG1	VAL	G	895	48.600	74.852	81.779	1.00	99.66	G
ATOM	14870	CG2	VAL	G	895	46.629	73.609	82.693	1.00	99.66	G
ATOM	14871	C	VAL	G	895	46.459	77.274	81.677	1.00	49.89	G
ATOM	14872	O	VAL	G	895	47.292	78.165	81.553	1.00	49.89	G
ATOM	14873	N	ALA	G	896	45.343	77.213	80.962	1.00	65.22	G
ATOM	14874	CA	ALA	G	896	45.012	78.216	79.970	1.00	65.22	G
ATOM	14875	CB	ALA	G	896	43.830	77.760	79.123	1.00	34.75	G
ATOM	14876	C	ALA	G	896	44.650	79.481	80.708	1.00	65.22	G
ATOM	14877	O	ALA	G	896	45.286	80.508	80.525	1.00	65.22	G
ATOM	14878	N	GLN	G	897	43.621	79.386	81.545	1.00	97.43	G
ATOM	14879	CA	GLN	G	897	43.126	80.514	82.324	1.00	97.43	G
ATOM	14880	CB	GLN	G	897	42.975	80.110	83.792	1.00	100.07	G
ATOM	14881	CG	GLN	G	897	42.576	81.253	84.727	1.00	100.07	G
ATOM	14882	CD	GLN	G	897	41.293	81.973	84.314	1.00	100.07	G
ATOM	14883	OE1	GLN	G	897	40.782	82.815	85.052	1.00	100.07	G
ATOM	14884	NE2	GLN	G	897	40.776	81.652	83.134	1.00	100.07	G
ATOM	14885	C	GLN	G	897	43.989	81.767	82.213	1.00	97.43	G
ATOM	14886	O	GLN	G	897	43.545	82.794	81.691	1.00	97.43	G
ATOM	14887	N	GLU	G	898	45.222	81.676	82.699	1.00	100.07	G
ATOM	14888	CA	GLU	G	898	46.160	82.795	82.648	1.00	100.07	G
ATOM	14889	CB	GLU	G	898	47.529	82.338	83.156	1.00	100.07	G
ATOM	14890	CG	GLU	G	898	47.533	81.817	84.580	1.00	100.07	G
ATOM	14891	CD	GLU	G	898	48.633	80.791	84.818	1.00	100.07	G
ATOM	14892	OE1	GLU	G	898	48.391	79.587	84.580	1.00	100.07	G
ATOM	14893	OE2	GLU	G	898	49.744	81.187	85.230	1.00	100.07	G
ATOM	14894	C	GLU	G	898	46.305	83.364	81.225	1.00	100.07	G
ATOM	14895	O	GLU	G	898	45.985	84.532	80.978	1.00	100.07	G
ATOM	14896	N	LEU	G	899	46.800	82.529	80.307	1.00	54.36	G
ATOM	14897	CA	LEU	G	899	47.007	82.907	78.909	1.00	54.36	G
ATOM	14898	CB	LEU	G	899	47.535	81.734	78.077	1.00	94.45	G
ATOM	14899	CG	LEU	G	899	48.893	81.078	78.303	1.00	94.45	G
ATOM	14900	CD1	LEU	G	899	48.948	80.411	79.669	1.00	94.45	G
ATOM	14901	CD2	LEU	G	899	49.110	80.048	77.201	1.00	94.45	G
ATOM	14902	C	LEU	G	899	45.689	83.299	78.313	1.00	54.36	G
ATOM	14903	O	LEU	G	899	45.262	82.698	77.335	1.00	54.36	G
ATOM	14904	N	ILE	G	900	45.040	84.292	78.892	1.00	29.34	G
ATOM	14905	CA	ILE	G	900	43.753	84.731	78.391	1.00	29.34	G
ATOM	14906	CB	ILE	G	900	42.609	83.719	78.772	1.00	38.38	G
ATOM	14907	CG2	ILE	G	900	41.239	84.318	78.475	1.00	38.38	G
ATOM	14908	CG1	ILE	G	900	42.735	82.428	77.961	1.00	38.38	G
ATOM	14909	CD	ILE	G	900	42.908	81.177	78.789	1.00	38.38	G
ATOM	14910	C	ILE	G	900	43.429	86.076	79.009	1.00	29.34	G
ATOM	14911	O	ILE	G	900	43.752	86.317	80.180	1.00	29.34	G
ATOM	14912	N	GLN	G	901	42.822	86.959	78.220	1.00	41.82	G
ATOM	14913	CA	GLN	G	901	42.398	88.252	78.738	1.00	41.82	G
ATOM	14914	CB	GLN	G	901	42.550	89.357	77.685	1.00	100.07	G

ATOM	14915	CG	GLN	G	901	43.910	90.058	77.731	1.00100.07	G
ATOM	14916	CD	GLN	G	901	43.896	91.438	77.088	1.00100.07	G
ATOM	14917	OE1	GLN	G	901	43.106	92.307	77.464	1.00100.07	G
ATOM	14918	NE2	GLN	G	901	44.779	91.645	76.122	1.00100.07	G
ATOM	14919	C	GLN	G	901	40.933	88.037	79.093	1.00 41.82	G
ATOM	14920	O	GLN	G	901	40.034	88.584	78.449	1.00 41.82	G
ATOM	14921	N	MET	G	902	40.726	87.225	80.132	1.00 36.52	G
ATOM	14922	CA	MET	G	902	39.404	86.840	80.608	1.00 36.52	G
ATOM	14923	CB	MET	G	902	39.459	86.357	82.058	1.00 73.44	G
ATOM	14924	CG	MET	G	902	39.471	84.823	82.184	1.00 73.44	G
ATOM	14925	SD	MET	G	902	38.474	83.969	80.908	1.00 73.44	G
ATOM	14926	CE	MET	G	902	36.839	84.599	81.236	1.00 73.44	G
ATOM	14927	C	MET	G	902	38.321	87.869	80.451	1.00 36.52	G
ATOM	14928	O	MET	G	902	38.546	89.069	80.611	1.00 36.52	G
ATOM	14929	N	ASP	G	903	37.127	87.369	80.152	1.00100.07	G
ATOM	14930	CA	ASP	G	903	35.982	88.222	79.906	1.00100.07	G
ATOM	14931	CB	ASP	G	903	35.318	88.688	81.202	1.00100.07	G
ATOM	14932	CG	ASP	G	903	34.097	87.852	81.555	1.00100.07	G
ATOM	14933	OD1	ASP	G	903	34.287	86.680	81.942	1.00100.07	G
ATOM	14934	OD2	ASP	G	903	32.958	88.363	81.431	1.00100.07	G
ATOM	14935	C	ASP	G	903	36.476	89.397	79.099	1.00100.07	G
ATOM	14936	O	ASP	G	903	36.743	89.223	77.907	1.00100.07	G
ATOM	14937	N	VAL	G	904	36.632	90.573	79.722	1.00 35.44	G
ATOM	14938	CA	VAL	G	904	37.081	91.740	78.965	1.00 35.44	G
ATOM	14939	CB	VAL	G	904	38.610	91.748	78.870	1.00 99.60	G
ATOM	14940	CG1	VAL	G	904	39.085	92.918	78.023	1.00 99.60	G
ATOM	14941	CG2	VAL	G	904	39.197	91.808	80.259	1.00 99.60	G
ATOM	14942	C	VAL	G	904	36.495	91.513	77.563	1.00 35.44	G
ATOM	14943	O	VAL	G	904	37.179	91.723	76.542	1.00 35.44	G
ATOM	14944	N	PRO	G	905	35.213	91.068	77.508	1.00100.07	G
ATOM	14945	CD	PRO	G	905	34.267	91.101	78.645	1.00 35.40	G
ATOM	14946	CA	PRO	G	905	34.472	90.763	76.283	1.00100.07	G
ATOM	14947	CB	PRO	G	905	33.028	90.680	76.781	1.00 35.40	G
ATOM	14948	CG	PRO	G	905	33.183	90.179	78.179	1.00 35.40	G
ATOM	14949	C	PRO	G	905	34.661	91.686	75.072	1.00100.07	G
ATOM	14950	O	PRO	G	905	33.722	92.331	74.600	1.00100.07	G
ATOM	14951	N	GLN	G	906	35.897	91.709	74.578	1.00 48.66	G
ATOM	14952	CA	GLN	G	906	36.326	92.483	73.424	1.00 48.66	G
ATOM	14953	CB	GLN	G	906	36.430	93.970	73.781	1.00100.07	G
ATOM	14954	CG	GLN	G	906	35.082	94.657	74.078	1.00100.07	G
ATOM	14955	CD	GLN	G	906	34.858	94.969	75.562	1.00100.07	G
ATOM	14956	OE1	GLN	G	906	34.928	94.084	76.418	1.00100.07	G
ATOM	14957	NE2	GLN	G	906	34.580	96.237	75.865	1.00100.07	G
ATOM	14958	C	GLN	G	906	37.705	91.884	73.169	1.00 48.66	G
ATOM	14959	O	GLN	G	906	38.565	91.921	74.053	1.00 48.66	G
ATOM	14960	N	GLU	G	907	37.898	91.309	71.981	1.00 57.50	G
ATOM	14961	CA	GLU	G	907	39.157	90.654	71.615	1.00 57.50	G
ATOM	14962	CB	GLU	G	907	38.996	89.158	71.819	1.00 15.90	G
ATOM	14963	CG	GLU	G	907	40.233	88.440	72.240	1.00 15.90	G
ATOM	14964	CD	GLU	G	907	40.084	87.869	73.630	1.00 15.90	G
ATOM	14965	OE1	GLU	G	907	38.939	87.498	73.974	1.00 15.90	G
ATOM	14966	OE2	GLU	G	907	41.093	87.784	74.381	1.00 15.90	G
ATOM	14967	C	GLU	G	907	39.488	90.917	70.145	1.00 57.50	G
ATOM	14968	O	GLU	G	907	38.589	90.863	69.304	1.00 57.50	G
ATOM	14969	N	LYS	G	908	40.757	91.186	69.824	1.00 31.57	G
ATOM	14970	CA	LYS	G	908	41.142	91.442	68.428	1.00 31.57	G
ATOM	14971	CB	LYS	G	908	40.448	92.710	67.929	1.00100.07	G
ATOM	14972	CG	LYS	G	908	41.120	93.364	66.743	1.00100.07	G
ATOM	14973	CD	LYS	G	908	42.219	94.317	67.196	1.00100.07	G
ATOM	14974	CE	LYS	G	908	42.775	95.148	66.039	1.00100.07	G
ATOM	14975	NZ	LYS	G	908	43.752	96.207	66.481	1.00100.07	G
ATOM	14976	C	LYS	G	908	42.651	91.537	68.153	1.00 31.57	G
ATOM	14977	O	LYS	G	908	43.131	91.330	67.026	1.00 31.57	G
ATOM	14978	N	ASN	G	909	43.409	91.867	69.179	1.00 45.38	G
ATOM	14979	CA	ASN	G	909	44.844	91.978	69.011	1.00 45.38	G
ATOM	14980	CB	ASN	G	909	45.292	93.348	69.506	1.00 50.76	G
ATOM	14981	CG	ASN	G	909	46.711	93.669	69.132	1.00 50.76	G
ATOM	14982	OD1	ASN	G	909	47.637	92.953	69.505	1.00 50.76	G
ATOM	14983	ND2	ASN	G	909	46.896	94.759	68.394	1.00 50.76	G
ATOM	14984	C	ASN	G	909	45.408	90.871	69.879	1.00 45.38	G
ATOM	14985	O	ASN	G	909	46.264	90.103	69.450	1.00 45.38	G
ATOM	14986	N	SER	G	910	44.883	90.809	71.101	1.00 35.05	G
ATOM	14987	CA	SER	G	910	45.249	89.815	72.090	1.00 35.05	G
ATOM	14988	CB	SER	G	910	44.181	89.739	73.167	1.00 16.04	G
ATOM	14989	OG	SER	G	910	42.943	89.345	72.603	1.00 16.04	G
ATOM	14990	C	SER	G	910	45.378	88.435	71.467	1.00 35.05	G
ATOM	14991	O	SER	G	910	46.270	87.671	71.840	1.00 35.05	G
ATOM	14992	N	LEU	G	911	44.471	88.094	70.548	1.00 32.43	G
ATOM	14993	CA	LEU	G	911	44.541	86.787	69.899	1.00 32.43	G
ATOM	14994	CB	LEU	G	911	43.677	86.741	68.636	1.00 41.34	G
ATOM	14995	CG	LEU	G	911	42.151	86.821	68.771	1.00 41.34	G
ATOM	14996	CD1	LEU	G	911	41.600	85.619	69.528	1.00 41.34	G
ATOM	14997	CD2	LEU	G	911	41.794	88.114	69.473	1.00 41.34	G
ATOM	14998	C	LEU	G	911	46.001	86.671	69.535	1.00 32.43	G

ATOM	14999	O	LEU	G	911	46.691	85.741	69.960	1.00	32.43	G
ATOM	15000	N	LYS	G	912	46.465	87.663	68.782	1.00	26.24	G
ATOM	15001	CA	LYS	G	912	47.854	87.734	68.371	1.00	26.24	G
ATOM	15002	CB	LYS	G	912	48.134	89.075	67.710	1.00	42.77	G
ATOM	15003	CG	LYS	G	912	49.594	89.346	67.439	1.00	42.77	G
ATOM	15004	CD	LYS	G	912	49.675	90.480	66.438	1.00	42.77	G
ATOM	15005	CE	LYS	G	912	51.095	90.931	66.124	1.00	42.77	G
ATOM	15006	NZ	LYS	G	912	51.108	91.949	65.018	1.00	42.77	G
ATOM	15007	C	LYS	G	912	48.753	87.574	69.589	1.00	26.24	G
ATOM	15008	O	LYS	G	912	49.753	86.851	69.542	1.00	26.24	G
ATOM	15009	N	ASP	G	913	48.399	88.245	70.683	1.00	37.60	G
ATOM	15010	CA	ASP	G	913	49.207	88.148	71.888	1.00	37.60	G
ATOM	15011	CB	ASP	G	913	48.731	89.125	72.966	1.00	100.07	G
ATOM	15012	CG	ASP	G	913	49.732	89.257	74.109	1.00	100.07	G
ATOM	15013	OD1	ASP	G	913	50.918	89.530	73.819	1.00	100.07	G
ATOM	15014	OD2	ASP	G	913	49.343	89.091	75.289	1.00	100.07	G
ATOM	15015	C	ASP	G	913	49.153	86.725	72.410	1.00	37.60	G
ATOM	15016	O	ASP	G	913	50.153	86.018	72.344	1.00	37.60	G
ATOM	15017	N	LEU	G	914	47.991	86.309	72.912	1.00	68.78	G
ATOM	15018	CA	LEU	G	914	47.812	84.958	73.440	1.00	68.78	G
ATOM	15019	CB	LEU	G	914	46.397	84.424	73.144	1.00	21.88	G
ATOM	15020	CG	LEU	G	914	45.847	83.327	74.081	1.00	21.88	G
ATOM	15021	CD1	LEU	G	914	44.512	82.819	73.558	1.00	21.88	G
ATOM	15022	CD2	LEU	G	914	46.828	82.182	74.220	1.00	21.88	G
ATOM	15023	C	LEU	G	914	48.820	84.053	72.758	1.00	68.78	G
ATOM	15024	O	LEU	G	914	49.779	83.595	73.383	1.00	68.78	G
ATOM	15025	N	VAL	G	915	48.602	83.838	71.460	1.00	25.52	G
ATOM	15026	CA	VAL	G	915	49.455	82.986	70.652	1.00	25.52	G
ATOM	15027	CB	VAL	G	915	49.341	83.348	69.215	1.00	5.07	G
ATOM	15028	CG1	VAL	G	915	50.200	82.442	68.399	1.00	5.07	G
ATOM	15029	CG2	VAL	G	915	47.910	83.243	68.808	1.00	5.07	G
ATOM	15030	C	VAL	G	915	50.916	83.009	71.033	1.00	25.52	G
ATOM	15031	O	VAL	G	915	51.476	81.961	71.340	1.00	25.52	G
ATOM	15032	N	TYR	G	916	51.542	84.184	70.996	1.00	41.66	G
ATOM	15033	CA	TYR	G	916	52.948	84.275	71.378	1.00	41.66	G
ATOM	15034	CB	TYR	G	916	53.486	85.711	71.262	1.00	18.15	G
ATOM	15035	CG	TYR	G	916	54.914	85.896	71.781	1.00	18.15	G
ATOM	15036	CD1	TYR	G	916	55.974	86.157	70.913	1.00	18.15	G
ATOM	15037	CE1	TYR	G	916	57.285	86.297	71.395	1.00	18.15	G
ATOM	15038	CD2	TYR	G	916	55.200	85.786	73.140	1.00	18.15	G
ATOM	15039	CE2	TYR	G	916	56.496	85.919	73.630	1.00	18.15	G
ATOM	15040	CZ	TYR	G	916	57.538	86.171	72.763	1.00	18.15	G
ATOM	15041	OH	TYR	G	916	58.823	86.266	73.280	1.00	18.15	G
ATOM	15042	C	TYR	G	916	53.050	83.806	72.821	1.00	41.66	G
ATOM	15043	O	TYR	G	916	53.426	82.667	73.069	1.00	41.66	G
ATOM	15044	N	GLN	G	917	52.703	84.676	73.771	1.00	94.98	G
ATOM	15045	CA	GLN	G	917	52.781	84.323	75.190	1.00	94.98	G
ATOM	15046	CB	GLN	G	917	52.465	85.554	76.079	1.00	67.42	G
ATOM	15047	CG	GLN	G	917	53.678	86.529	76.295	1.00	67.42	G
ATOM	15048	CD	GLN	G	917	53.314	88.045	76.339	1.00	67.42	G
ATOM	15049	OE1	GLN	G	917	52.847	88.618	75.348	1.00	67.42	G
ATOM	15050	NE2	GLN	G	917	53.550	88.686	77.488	1.00	67.42	G
ATOM	15051	C	GLN	G	917	51.868	83.138	75.512	1.00	94.98	G
ATOM	15052	O	GLN	G	917	51.292	83.059	76.591	1.00	94.98	G
ATOM	15053	N	ALA	G	918	51.762	82.230	74.539	1.00	30.48	G
ATOM	15054	CA	ALA	G	918	50.991	80.982	74.599	1.00	30.48	G
ATOM	15055	CB	ALA	G	918	49.742	81.064	73.747	1.00	23.16	G
ATOM	15056	C	ALA	G	918	51.932	79.961	73.990	1.00	30.48	G
ATOM	15057	O	ALA	G	918	52.021	78.815	74.432	1.00	30.48	G
ATOM	15058	N	PHE	G	919	52.609	80.417	72.941	1.00	37.87	G
ATOM	15059	CA	PHE	G	919	53.592	79.652	72.190	1.00	37.87	G
ATOM	15060	CB	PHE	G	919	54.153	80.561	71.071	1.00	25.21	G
ATOM	15061	CG	PHE	G	919	55.256	79.952	70.220	1.00	25.21	G
ATOM	15062	CD1	PHE	G	919	55.259	80.153	68.837	1.00	25.21	G
ATOM	15063	CD2	PHE	G	919	56.339	79.281	70.789	1.00	25.21	G
ATOM	15064	CE1	PHE	G	919	56.315	79.708	68.042	1.00	25.21	G
ATOM	15065	CE2	PHE	G	919	57.398	78.835	69.996	1.00	25.21	G
ATOM	15066	CZ	PHE	G	919	57.378	79.053	68.621	1.00	25.21	G
ATOM	15067	C	PHE	G	919	54.651	79.222	73.205	1.00	37.87	G
ATOM	15068	O	PHE	G	919	54.606	78.097	73.685	1.00	37.87	G
ATOM	15069	N	LEU	G	920	55.574	80.101	73.573	1.00	31.15	G
ATOM	15070	CA	LEU	G	920	56.598	79.696	74.525	1.00	31.15	G
ATOM	15071	CB	LEU	G	920	57.518	80.859	74.885	1.00	50.94	G
ATOM	15072	CG	LEU	G	920	56.924	82.240	75.111	1.00	50.94	G
ATOM	15073	CD1	LEU	G	920	57.982	83.180	75.653	1.00	50.94	G
ATOM	15074	CD2	LEU	G	920	56.404	82.757	73.793	1.00	50.94	G
ATOM	15075	C	LEU	G	920	56.000	79.114	75.794	1.00	31.15	G
ATOM	15076	O	LEU	G	920	56.715	78.559	76.637	1.00	31.15	G
ATOM	15077	N	ARG	G	921	54.685	79.234	75.929	1.00	42.43	G
ATOM	15078	CA	ARG	G	921	54.004	78.695	77.096	1.00	42.43	G
ATOM	15079	CB	ARG	G	921	52.665	79.392	77.284	1.00	100.07	G
ATOM	15080	CG	ARG	G	921	52.771	80.890	77.390	1.00	100.07	G
ATOM	15081	CD	ARG	G	921	52.866	81.362	78.826	1.00	100.07	G
ATOM	15082	NE	ARG	G	921	52.538	82.782	78.913	1.00	100.07	G

ATOM	15083	CZ	ARG	G	921	52.284	83.419	80.048	1.00100.07	G
ATOM	15084	NH1	ARG	G	921	52.324	82.764	81.201	1.00100.07	G
ATOM	15085	NH2	ARG	G	921	51.970	84.705	80.027	1.00100.07	G
ATOM	15086	C	ARG	G	921	53.766	77.206	76.911	1.00 42.43	G
ATOM	15087	O	ARG	G	921	53.982	76.419	77.827	1.00 42.43	G
ATOM	15088	N	LEU	G	922	53.327	76.838	75.710	1.00 44.04	G
ATOM	15089	CA	LEU	G	922	53.030	75.451	75.361	1.00 44.04	G
ATOM	15090	CB	LEU	G	922	51.512	75.287	75.270	1.00 7.34	G
ATOM	15091	CG	LEU	G	922	50.720	76.050	76.343	1.00 7.34	G
ATOM	15092	CD1	LEU	G	922	49.227	76.146	76.025	1.00 7.34	G
ATOM	15093	CD2	LEU	G	922	50.944	75.348	77.636	1.00 7.34	G
ATOM	15094	C	LEU	G	922	53.686	75.135	74.010	1.00 44.04	G
ATOM	15095	O	LEU	G	922	53.556	75.902	73.063	1.00 44.04	G
ATOM	15096	N	GLY	G	923	54.387	74.010	73.922	1.00 72.53	G
ATOM	15097	CA	GLY	G	923	55.075	73.648	72.687	1.00 72.53	G
ATOM	15098	C	GLY	G	923	54.411	73.979	71.358	1.00 72.53	G
ATOM	15099	O	GLY	G	923	53.186	74.029	71.275	1.00 72.53	G
ATOM	15100	N	MET	G	924	55.218	74.200	70.317	1.00 43.18	G
ATOM	15101	CA	MET	G	924	54.697	74.513	68.986	1.00 43.18	G
ATOM	15102	CB	MET	G	924	55.687	74.157	67.886	1.00 30.36	G
ATOM	15103	CG	MET	G	924	56.921	74.996	67.850	1.00 30.36	G
ATOM	15104	SD	MET	G	924	57.814	74.652	66.340	1.00 30.36	G
ATOM	15105	CE	MET	G	924	58.292	72.974	66.643	1.00 30.36	G
ATOM	15106	C	MET	G	924	53.456	73.710	68.722	1.00 43.18	G
ATOM	15107	O	MET	G	924	52.382	74.271	68.488	1.00 43.18	G
ATOM	15108	N	GLU	G	925	53.618	72.387	68.755	1.00 32.52	G
ATOM	15109	CA	GLU	G	925	52.511	71.489	68.506	1.00 32.52	G
ATOM	15110	CB	GLU	G	925	52.806	70.096	69.053	1.00100.07	G
ATOM	15111	CG	GLU	G	925	53.470	70.084	70.392	1.00100.07	G
ATOM	15112	CD	GLU	G	925	54.402	68.905	70.528	1.00100.07	G
ATOM	15113	OE1	GLU	G	925	55.204	68.695	69.595	1.00100.07	G
ATOM	15114	OE2	GLU	G	925	54.346	68.197	71.556	1.00100.07	G
ATOM	15115	C	GLU	G	925	51.262	72.061	69.131	1.00 32.52	G
ATOM	15116	O	GLU	G	925	50.353	72.475	68.417	1.00 32.52	G
ATOM	15117	N	LYS	G	926	51.215	72.129	70.453	1.00 40.61	G
ATOM	15118	CA	LYS	G	926	50.027	72.672	71.076	1.00 40.61	G
ATOM	15119	CB	LYS	G	926	50.277	72.984	72.542	1.00 81.62	G
ATOM	15120	CG	LYS	G	926	50.375	71.727	73.363	1.00 81.62	G
ATOM	15121	CD	LYS	G	926	50.031	71.990	74.803	1.00 81.62	G
ATOM	15122	CE	LYS	G	926	49.978	70.696	75.601	1.00 81.62	G
ATOM	15123	NZ	LYS	G	926	49.600	70.913	77.033	1.00 81.62	G
ATOM	15124	C	LYS	G	926	49.543	73.898	70.320	1.00 40.61	G
ATOM	15125	O	LYS	G	926	48.554	73.813	69.606	1.00 40.61	G
ATOM	15126	N	THR	G	927	50.244	75.017	70.428	1.00 44.70	G
ATOM	15127	CA	THR	G	927	49.823	76.226	69.733	1.00 44.70	G
ATOM	15128	CB	THR	G	927	50.993	77.101	69.374	1.00 25.61	G
ATOM	15129	OG1	THR	G	927	51.706	77.460	70.559	1.00 25.61	G
ATOM	15130	CG2	THR	G	927	50.491	78.360	68.687	1.00 25.61	G
ATOM	15131	C	THR	G	927	49.076	75.949	68.435	1.00 44.70	G
ATOM	15132	O	THR	G	927	47.968	76.455	68.237	1.00 44.70	G
ATOM	15133	N	ALA	G	928	49.688	75.160	67.548	1.00 38.44	G
ATOM	15134	CA	ALA	G	928	49.064	74.817	66.265	1.00 38.44	G
ATOM	15135	CB	ALA	G	928	49.713	73.564	65.653	1.00 10.51	G
ATOM	15136	C	ALA	G	928	47.605	74.551	66.551	1.00 38.44	G
ATOM	15137	O	ALA	G	928	46.722	75.151	65.946	1.00 38.44	G
ATOM	15138	N	ARG	G	929	47.358	73.650	67.491	1.00 18.89	G
ATOM	15139	CA	ARG	G	929	45.999	73.341	67.846	1.00 18.89	G
ATOM	15140	CB	ARG	G	929	45.953	72.464	69.094	1.00 93.16	G
ATOM	15141	CG	ARG	G	929	46.502	71.090	68.814	1.00 93.16	G
ATOM	15142	CD	ARG	G	929	46.388	70.151	69.983	1.00 93.16	G
ATOM	15143	NE	ARG	G	929	46.770	68.804	69.571	1.00 93.16	G
ATOM	15144	CZ	ARG	G	929	46.714	67.734	70.355	1.00 93.16	G
ATOM	15145	NH1	ARG	G	929	46.293	67.855	71.608	1.00 93.16	G
ATOM	15146	NH2	ARG	G	929	47.059	66.541	69.880	1.00 93.16	G
ATOM	15147	C	ARG	G	929	45.277	74.659	68.051	1.00 18.89	G
ATOM	15148	O	ARG	G	929	44.634	75.137	67.134	1.00 18.89	G
ATOM	15149	N	LEU	G	930	45.393	75.259	69.230	1.00 27.41	G
ATOM	15150	CA	LEU	G	930	44.728	76.529	69.493	1.00 27.41	G
ATOM	15151	CB	LEU	G	930	45.461	77.304	70.597	1.00 41.94	G
ATOM	15152	CG	LEU	G	930	44.855	78.623	71.112	1.00 41.94	G
ATOM	15153	CD1	LEU	G	930	45.141	79.778	70.179	1.00 41.94	G
ATOM	15154	CD2	LEU	G	930	43.364	78.440	71.280	1.00 41.94	G
ATOM	15155	C	LEU	G	930	44.676	77.370	68.220	1.00 27.41	G
ATOM	15156	O	LEU	G	930	43.660	78.003	67.937	1.00 27.41	G
ATOM	15157	N	LEU	G	931	45.764	77.369	67.453	1.00 19.20	G
ATOM	15158	CA	LEU	G	931	45.830	78.134	66.204	1.00 19.20	G
ATOM	15159	CB	LEU	G	931	47.185	77.897	65.530	1.00 16.34	G
ATOM	15160	CG	LEU	G	931	48.025	79.122	65.193	1.00 16.34	G
ATOM	15161	CD1	LEU	G	931	47.242	80.021	64.251	1.00 16.34	G
ATOM	15162	CD2	LEU	G	931	48.402	79.843	66.472	1.00 16.34	G
ATOM	15163	C	LEU	G	931	44.707	77.660	65.281	1.00 19.20	G
ATOM	15164	O	LEU	G	931	44.128	78.420	64.503	1.00 19.20	G
ATOM	15165	N	ASP	G	932	44.433	76.371	65.383	1.00 53.43	G
ATOM	15166	CA	ASP	G	932	43.397	75.713	64.619	1.00 53.43	G

ATOM	15167	CB	ASP	G	932	43.775	74.250	64.423	1.00	40.48	G
ATOM	15168	CG	ASP	G	932	44.188	73.955	63.011	1.00	40.48	G
ATOM	15169	OD1	ASP	G	932	43.355	74.213	62.112	1.00	40.48	G
ATOM	15170	OD2	ASP	G	932	45.327	73.476	62.793	1.00	40.48	G
ATOM	15171	C	ASP	G	932	42.072	75.819	65.369	1.00	53.43	G
ATOM	15172	O	ASP	G	932	41.074	76.311	64.831	1.00	53.43	G
ATOM	15173	N	ALA	G	933	42.073	75.349	66.614	1.00	22.75	G
ATOM	15174	CA	ALA	G	933	40.893	75.395	67.454	1.00	22.75	G
ATOM	15175	CB	ALA	G	933	41.297	75.350	68.898	1.00	12.60	G
ATOM	15176	C	ALA	G	933	40.165	76.684	67.171	1.00	22.75	G
ATOM	15177	O	ALA	G	933	38.956	76.676	66.996	1.00	22.75	G
ATOM	15178	N	LEU	G	934	40.927	77.780	67.100	1.00	45.10	G
ATOM	15179	CA	LEU	G	934	40.403	79.126	66.848	1.00	45.10	G
ATOM	15180	CB	LEU	G	934	41.485	80.172	67.078	1.00	14.64	G
ATOM	15181	CG	LEU	G	934	41.968	80.342	68.516	1.00	14.64	G
ATOM	15182	CD1	LEU	G	934	43.095	81.362	68.574	1.00	14.64	G
ATOM	15183	CD2	LEU	G	934	40.816	80.784	69.368	1.00	14.64	G
ATOM	15184	C	LEU	G	934	39.798	79.375	65.477	1.00	45.10	G
ATOM	15185	O	LEU	G	934	38.682	79.871	65.375	1.00	45.10	G
ATOM	15186	N	LYS	G	935	40.522	79.059	64.416	1.00	40.13	G
ATOM	15187	CA	LYS	G	935	39.971	79.296	63.092	1.00	40.13	G
ATOM	15188	CB	LYS	G	935	40.876	78.716	62.011	1.00	64.39	G
ATOM	15189	CG	LYS	G	935	40.839	77.215	61.933	1.00	64.39	G
ATOM	15190	CD	LYS	G	935	40.838	76.780	60.499	1.00	64.39	G
ATOM	15191	CE	LYS	G	935	40.732	75.284	60.400	1.00	64.39	G
ATOM	15192	NZ	LYS	G	935	40.455	74.896	58.997	1.00	64.39	G
ATOM	15193	C	LYS	G	935	38.576	78.692	62.951	1.00	40.13	G
ATOM	15194	O	LYS	G	935	37.656	79.356	62.482	1.00	40.13	G
ATOM	15195	N	TYR	G	936	38.409	77.439	63.360	1.00	53.66	G
ATOM	15196	CA	TYR	G	936	37.106	76.798	63.246	1.00	53.66	G
ATOM	15197	CB	TYR	G	936	37.117	75.442	63.948	1.00	52.88	G
ATOM	15198	CG	TYR	G	936	35.804	74.667	63.921	1.00	52.88	G
ATOM	15199	CD1	TYR	G	936	35.735	73.373	64.450	1.00	52.88	G
ATOM	15200	CE1	TYR	G	936	34.535	72.653	64.468	1.00	52.88	G
ATOM	15201	CD2	TYR	G	936	34.634	75.220	63.408	1.00	52.88	G
ATOM	15202	CE2	TYR	G	936	33.432	74.509	63.426	1.00	52.88	G
ATOM	15203	CZ	TYR	G	936	33.391	73.231	63.955	1.00	52.88	G
ATOM	15204	OH	TYR	G	936	32.210	72.528	63.975	1.00	52.88	G
ATOM	15205	C	TYR	G	936	36.028	77.684	63.846	1.00	53.66	G
ATOM	15206	O	TYR	G	936	35.275	78.339	63.114	1.00	53.66	G
ATOM	15207	N	TYR	G	937	35.952	77.704	65.175	1.00	79.97	G
ATOM	15208	CA	TYR	G	937	34.948	78.511	65.855	1.00	79.97	G
ATOM	15209	CB	TYR	G	937	35.297	78.656	67.337	1.00	58.88	G
ATOM	15210	CG	TYR	G	937	35.137	77.356	68.078	1.00	58.88	G
ATOM	15211	CD1	TYR	G	937	35.983	76.282	67.812	1.00	58.88	G
ATOM	15212	CE1	TYR	G	937	35.814	75.042	68.444	1.00	58.88	G
ATOM	15213	CD2	TYR	G	937	34.110	77.171	68.999	1.00	58.88	G
ATOM	15214	CE2	TYR	G	937	33.927	75.936	69.640	1.00	58.88	G
ATOM	15215	CZ	TYR	G	937	34.787	74.875	69.354	1.00	58.88	G
ATOM	15216	OH	TYR	G	937	34.642	73.650	69.968	1.00	58.88	G
ATOM	15217	C	TYR	G	937	34.828	79.871	65.187	1.00	79.97	G
ATOM	15218	O	TYR	G	937	33.725	80.382	64.967	1.00	79.97	G
ATOM	15219	N	GLY	G	938	35.973	80.443	64.839	1.00	60.21	G
ATOM	15220	CA	GLY	G	938	35.968	81.729	64.177	1.00	60.21	G
ATOM	15221	C	GLY	G	938	35.047	81.722	62.974	1.00	60.21	G
ATOM	15222	O	GLY	G	938	34.048	82.439	62.948	1.00	60.21	G
ATOM	15223	N	PHE	G	939	35.355	80.896	61.981	1.00	22.71	G
ATOM	15224	CA	PHE	G	939	34.525	80.871	60.785	1.00	22.71	G
ATOM	15225	CB	PHE	G	939	35.062	79.868	59.746	1.00	18.06	G
ATOM	15226	CG	PHE	G	939	36.390	80.246	59.161	1.00	18.06	G
ATOM	15227	CD1	PHE	G	939	37.567	79.921	59.810	1.00	18.06	G
ATOM	15228	CD2	PHE	G	939	36.458	80.922	57.963	1.00	18.06	G
ATOM	15229	CE1	PHE	G	939	38.784	80.272	59.281	1.00	18.06	G
ATOM	15230	CE2	PHE	G	939	37.664	81.276	57.430	1.00	18.06	G
ATOM	15231	CZ	PHE	G	939	38.832	80.947	58.086	1.00	18.06	G
ATOM	15232	C	PHE	G	939	33.061	80.556	61.075	1.00	22.71	G
ATOM	15233	O	PHE	G	939	32.180	81.354	60.726	1.00	22.71	G
ATOM	15234	N	THR	G	940	32.811	79.403	61.705	1.00	35.31	G
ATOM	15235	CA	THR	G	940	31.452	78.956	62.031	1.00	35.31	G
ATOM	15236	CB	THR	G	940	31.456	77.814	63.039	1.00	78.82	G
ATOM	15237	OG1	THR	G	940	32.338	76.790	62.585	1.00	78.82	G
ATOM	15238	CG2	THR	G	940	30.050	77.241	63.201	1.00	78.82	G
ATOM	15239	C	THR	G	940	30.625	80.062	62.652	1.00	35.31	G
ATOM	15240	O	THR	G	940	29.586	80.471	62.107	1.00	35.31	G
ATOM	15241	N	LEU	G	941	31.090	80.505	63.820	1.00	73.58	G
ATOM	15242	CA	LEU	G	941	30.459	81.576	64.574	1.00	73.58	G
ATOM	15243	CB	LEU	G	941	31.392	82.061	65.672	1.00	25.16	G
ATOM	15244	CG	LEU	G	941	31.250	81.452	67.062	1.00	25.16	G
ATOM	15245	CD1	LEU	G	941	29.776	81.350	67.372	1.00	25.16	G
ATOM	15246	CD2	LEU	G	941	31.904	80.101	67.142	1.00	25.16	G
ATOM	15247	C	LEU	G	941	30.190	82.725	63.631	1.00	73.58	G
ATOM	15248	O	LEU	G	941	29.045	83.129	63.422	1.00	73.58	G
ATOM	15249	N	SER	G	942	31.274	83.254	63.082	1.00	23.90	G
ATOM	15250	CA	SER	G	942	31.213	84.341	62.137	1.00	23.90	G

ATOM	15251	CB	SER	G	942	32.423	84.280	61.226	1.00	9.16	G
ATOM	15252	OG	SER	G	942	32.145	85.004	60.053	1.00	9.16	G
ATOM	15253	C	SER	G	942	29.957	84.256	61.286	1.00	23.90	G
ATOM	15254	O	SER	G	942	29.270	85.257	61.076	1.00	23.90	G
ATOM	15255	N	THR	G	943	29.669	83.049	60.799	1.00	44.02	G
ATOM	15256	CA	THR	G	943	28.506	82.791	59.942	1.00	44.02	G
ATOM	15257	CB	THR	G	943	28.489	81.341	59.420	1.00	26.04	G
ATOM	15258	OG1	THR	G	943	29.828	80.886	59.195	1.00	26.04	G
ATOM	15259	CG2	THR	G	943	27.722	81.270	58.120	1.00	26.04	G
ATOM	15260	C	THR	G	943	27.185	83.001	60.665	1.00	44.02	G
ATOM	15261	O	THR	G	943	26.441	83.932	60.358	1.00	44.02	G
ATOM	15262	N	THR	G	944	26.913	82.103	61.612	1.00	36.28	G
ATOM	15263	CA	THR	G	944	25.700	82.094	62.430	1.00	36.28	G
ATOM	15264	CB	THR	G	944	25.942	81.356	63.735	1.00	19.29	G
ATOM	15265	OG1	THR	G	944	27.162	80.621	63.625	1.00	19.29	G
ATOM	15266	CG2	THR	G	944	24.817	80.386	64.017	1.00	19.29	G
ATOM	15267	C	THR	G	944	25.205	83.475	62.788	1.00	36.28	G
ATOM	15268	O	THR	G	944	24.009	83.763	62.693	1.00	36.28	G
ATOM	15269	N	SER	G	945	26.124	84.328	63.216	1.00	25.97	G
ATOM	15270	CA	SER	G	945	25.752	85.682	63.592	1.00	25.97	G
ATOM	15271	CB	SER	G	945	26.934	86.379	64.278	1.00	73.26	G
ATOM	15272	OG	SER	G	945	27.170	85.825	65.565	1.00	73.26	G
ATOM	15273	C	SER	G	945	25.240	86.510	62.409	1.00	25.97	G
ATOM	15274	O	SER	G	945	24.060	86.843	62.345	1.00	25.97	G
ATOM	15275	N	GLY	G	946	26.112	86.828	61.462	1.00	46.19	G
ATOM	15276	CA	GLY	G	946	25.679	87.625	60.330	1.00	46.19	G
ATOM	15277	C	GLY	G	946	26.517	88.879	60.201	1.00	46.19	G
ATOM	15278	O	GLY	G	946	27.158	89.339	61.145	1.00	46.19	G
ATOM	15279	N	ILE	G	947	26.519	89.431	59.006	1.00	21.23	G
ATOM	15280	CA	ILE	G	947	27.273	90.632	58.712	1.00	21.23	G
ATOM	15281	CB	ILE	G	947	28.714	90.268	58.350	1.00	100.07	G
ATOM	15282	CG2	ILE	G	947	29.392	91.440	57.678	1.00	100.07	G
ATOM	15283	CG1	ILE	G	947	29.451	89.773	59.604	1.00	100.07	G
ATOM	15284	CD	ILE	G	947	29.439	90.735	60.789	1.00	100.07	G
ATOM	15285	C	ILE	G	947	26.529	91.158	57.501	1.00	21.23	G
ATOM	15286	O	ILE	G	947	25.935	90.364	56.797	1.00	21.23	G
ATOM	15287	N	ILE	G	948	26.520	92.456	57.228	1.00	20.15	G
ATOM	15288	CA	ILE	G	948	25.756	92.875	56.059	1.00	20.15	G
ATOM	15289	CB	ILE	G	948	24.259	92.923	56.375	1.00	82.40	G
ATOM	15290	CG2	ILE	G	948	23.604	91.690	55.848	1.00	82.40	G
ATOM	15291	CG1	ILE	G	948	24.045	93.126	57.881	1.00	82.40	G
ATOM	15292	CD	ILE	G	948	22.604	93.418	58.294	1.00	82.40	G
ATOM	15293	C	ILE	G	948	26.082	94.186	55.377	1.00	20.15	G
ATOM	15294	O	ILE	G	948	25.354	94.588	54.465	1.00	20.15	G
ATOM	15295	N	THR	G	949	27.154	94.851	55.790	1.00	17.57	G
ATOM	15296	CA	THR	G	949	27.483	96.137	55.199	1.00	17.57	G
ATOM	15297	CB	THR	G	949	28.791	96.048	54.445	1.00	22.46	G
ATOM	15298	OG1	THR	G	949	29.784	95.482	55.309	1.00	22.46	G
ATOM	15299	CG2	THR	G	949	29.243	97.433	54.029	1.00	22.46	G
ATOM	15300	C	THR	G	949	26.335	96.588	54.283	1.00	17.57	G
ATOM	15301	O	THR	G	949	26.424	96.542	53.048	1.00	17.57	G
ATOM	15302	N	ILE	G	950	25.238	96.984	54.930	1.00	37.62	G
ATOM	15303	CA	ILE	G	950	24.018	97.425	54.257	1.00	37.62	G
ATOM	15304	CB	ILE	G	950	22.784	97.348	55.217	1.00	100.07	G
ATOM	15305	CG2	ILE	G	950	21.613	98.122	54.644	1.00	100.07	G
ATOM	15306	CG1	ILE	G	950	22.406	95.891	55.496	1.00	100.07	G
ATOM	15307	CD	ILE	G	950	21.014	95.699	56.090	1.00	100.07	G
ATOM	15308	C	ILE	G	950	24.083	98.854	53.726	1.00	37.62	G
ATOM	15309	O	ILE	G	950	24.836	99.681	54.240	1.00	37.62	G
ATOM	15310	N	GLY	G	951	23.271	99.142	52.709	1.00	29.39	G
ATOM	15311	CA	GLY	G	951	23.231	100.478	52.154	1.00	29.39	G
ATOM	15312	C	GLY	G	951	23.311	101.364	53.356	1.00	29.39	G
ATOM	15313	O	GLY	G	951	23.989	102.388	53.329	1.00	29.39	G
ATOM	15314	N	ILE	G	952	22.644	100.914	54.423	1.00	55.50	G
ATOM	15315	CA	ILE	G	952	22.588	101.618	55.701	1.00	55.50	G
ATOM	15316	CB	ILE	G	952	21.127	101.746	56.244	1.00	70.06	G
ATOM	15317	CG2	ILE	G	952	21.077	102.844	57.304	1.00	70.06	G
ATOM	15318	CG1	ILE	G	952	20.147	102.061	55.101	1.00	70.06	G
ATOM	15319	CD	ILE	G	952	18.874	102.811	55.523	1.00	70.06	G
ATOM	15320	C	ILE	G	952	23.429	100.957	56.793	1.00	55.50	G
ATOM	15321	O	ILE	G	952	24.374	101.575	57.269	1.00	55.50	G
ATOM	15322	N	ASP	G	953	23.068	99.726	57.191	1.00	66.00	G
ATOM	15323	CA	ASP	G	953	23.776	98.959	58.240	1.00	66.00	G
ATOM	15324	CB	ASP	G	953	23.793	97.467	57.915	1.00	60.15	G
ATOM	15325	CG	ASP	G	953	22.908	96.648	58.834	1.00	60.15	G
ATOM	15326	OD1	ASP	G	953	23.361	96.269	59.940	1.00	60.15	G
ATOM	15327	OD2	ASP	G	953	21.750	96.384	58.445	1.00	60.15	G
ATOM	15328	C	ASP	G	953	25.209	99.404	58.378	1.00	66.00	G
ATOM	15329	O	ASP	G	953	26.112	98.706	57.932	1.00	66.00	G
ATOM	15330	N	ALA	G	954	25.398	100.549	59.026	1.00	33.02	G
ATOM	15331	CA	ALA	G	954	26.700	101.176	59.215	1.00	33.02	G
ATOM	15332	CB	ALA	G	954	27.814	100.142	59.248	1.00	100.07	G
ATOM	15333	C	ALA	G	954	26.866	102.120	58.026	1.00	33.02	G
ATOM	15334	O	ALA	G	954	26.660	101.750	56.874	1.00	33.02	G

ATOM	15335	N	ALA	G	955	27.229	103.351	58.343	1.00	66.89	G
ATOM	15336	CA	ALA	G	955	27.407	104.457	57.404	1.00	66.89	G
ATOM	15337	CB	ALA	G	955	26.561	104.266	56.149	1.00	48.39	G
ATOM	15338	C	ALA	G	955	26.764	105.468	58.318	1.00	66.89	G
ATOM	15339	O	ALA	G	955	27.113	106.647	58.349	1.00	66.89	G
ATOM	15340	N	VAL	G	956	25.828	104.919	59.088	1.00	44.92	G
ATOM	15341	CA	VAL	G	956	25.065	105.620	60.087	1.00	44.92	G
ATOM	15342	CB	VAL	G	956	25.136	104.886	61.409	1.00	88.16	G
ATOM	15343	CG1	VAL	G	956	24.219	105.546	62.398	1.00	88.16	G
ATOM	15344	CG2	VAL	G	956	24.790	103.431	61.208	1.00	88.16	G
ATOM	15345	C	VAL	G	956	25.650	106.989	60.283	1.00	44.92	G
ATOM	15346	O	VAL	G	956	26.437	107.217	61.209	1.00	44.92	G
ATOM	15347	N	ILE	G	957	25.274	107.899	59.398	1.00	100.07	G
ATOM	15348	CA	ILE	G	957	25.772	109.255	59.473	1.00	100.07	G
ATOM	15349	CB	ILE	G	957	25.656	109.961	58.116	1.00	72.26	G
ATOM	15350	CG2	ILE	G	957	25.611	111.463	58.304	1.00	72.26	G
ATOM	15351	CG1	ILE	G	957	26.847	109.573	57.246	1.00	72.26	G
ATOM	15352	CD	ILE	G	957	28.179	109.852	57.901	1.00	72.26	G
ATOM	15353	C	ILE	G	957	25.058	110.073	60.534	1.00	100.07	G
ATOM	15354	O	ILE	G	957	23.835	109.997	60.692	1.00	100.07	G
ATOM	15355	N	PRO	G	958	25.827	110.865	61.287	1.00	30.76	G
ATOM	15356	CD	PRO	G	958	27.301	110.863	61.294	1.00	41.33	G
ATOM	15357	CA	PRO	G	958	25.291	111.719	62.352	1.00	30.76	G
ATOM	15358	CB	PRO	G	958	26.502	111.949	63.237	1.00	41.33	G
ATOM	15359	CG	PRO	G	958	27.620	112.022	62.204	1.00	41.33	G
ATOM	15360	C	PRO	G	958	24.739	113.028	61.802	1.00	30.76	G
ATOM	15361	O	PRO	G	958	25.352	113.644	60.925	1.00	30.76	G
ATOM	15362	N	GLU	G	959	23.583	113.452	62.310	1.00	66.33	G
ATOM	15363	CA	GLU	G	959	22.996	114.710	61.865	1.00	66.33	G
ATOM	15364	CB	GLU	G	959	21.893	115.172	62.824	1.00	83.69	G
ATOM	15365	CG	GLU	G	959	20.767	114.172	63.094	1.00	83.69	G
ATOM	15366	CD	GLU	G	959	19.574	114.326	62.159	1.00	83.69	G
ATOM	15367	OE1	GLU	G	959	19.132	115.470	61.907	1.00	83.69	G
ATOM	15368	OE2	GLU	G	959	19.062	113.290	61.691	1.00	83.69	G
ATOM	15369	C	GLU	G	959	24.165	115.682	61.950	1.00	66.33	G
ATOM	15370	O	GLU	G	959	24.290	116.612	61.147	1.00	66.33	G
ATOM	15371	N	GLU	G	960	25.030	115.418	62.932	1.00	44.62	G
ATOM	15372	CA	GLU	G	960	26.213	116.225	63.206	1.00	44.62	G
ATOM	15373	CB	GLU	G	960	27.166	115.471	64.120	1.00	41.47	G
ATOM	15374	CG	GLU	G	960	26.551	115.152	65.456	1.00	41.47	G
ATOM	15375	CD	GLU	G	960	27.587	114.720	66.454	1.00	41.47	G
ATOM	15376	OE1	GLU	G	960	28.651	115.366	66.468	1.00	41.47	G
ATOM	15377	OE2	GLU	G	960	27.348	113.756	67.224	1.00	41.47	G
ATOM	15378	C	GLU	G	960	26.964	116.706	61.989	1.00	44.62	G
ATOM	15379	O	GLU	G	960	27.533	117.794	62.014	1.00	44.62	G
ATOM	15380	N	LYS	G	961	26.981	115.913	60.922	1.00	61.28	G
ATOM	15381	CA	LYS	G	961	27.679	116.365	59.730	1.00	61.28	G
ATOM	15382	CB	LYS	G	961	27.333	115.517	58.505	1.00	100.07	G
ATOM	15383	CG	LYS	G	961	28.207	115.854	57.298	1.00	100.07	G
ATOM	15384	CD	LYS	G	961	27.824	115.079	56.045	1.00	100.07	G
ATOM	15385	CE	LYS	G	961	28.768	115.401	54.889	1.00	100.07	G
ATOM	15386	NZ	LYS	G	961	28.351	114.749	53.617	1.00	100.07	G
ATOM	15387	C	LYS	G	961	27.187	117.787	59.524	1.00	61.28	G
ATOM	15388	O	LYS	G	961	27.934	118.661	59.104	1.00	61.28	G
ATOM	15389	N	GLN	G	962	25.923	118.015	59.857	1.00	40.61	G
ATOM	15390	CA	GLN	G	962	25.352	119.334	59.726	1.00	40.61	G
ATOM	15391	CB	GLN	G	962	23.860	119.289	60.019	1.00	82.10	G
ATOM	15392	CG	GLN	G	962	23.047	118.931	58.791	1.00	82.10	G
ATOM	15393	CD	GLN	G	962	21.593	118.692	59.117	1.00	82.10	G
ATOM	15394	OE1	GLN	G	962	21.023	119.360	59.981	1.00	82.10	G
ATOM	15395	NE2	GLN	G	962	20.976	117.743	58.422	1.00	82.10	G
ATOM	15396	C	GLN	G	962	26.066	120.324	60.636	1.00	40.61	G
ATOM	15397	O	GLN	G	962	26.977	121.001	60.181	1.00	40.61	G
ATOM	15398	N	ARG	G	963	25.672	120.414	61.907	1.00	99.81	G
ATOM	15399	CA	ARG	G	963	26.314	121.351	62.845	1.00	99.81	G
ATOM	15400	CB	ARG	G	963	26.111	120.869	64.311	1.00	54.04	G
ATOM	15401	CG	ARG	G	963	27.109	121.385	65.386	1.00	54.04	G
ATOM	15402	CD	ARG	G	963	27.015	120.551	66.704	1.00	54.04	G
ATOM	15403	NE	ARG	G	963	28.264	120.514	67.491	1.00	54.04	G
ATOM	15404	CZ	ARG	G	963	28.413	119.893	68.669	1.00	54.04	G
ATOM	15405	NH1	ARG	G	963	27.388	119.254	69.209	1.00	54.04	G
ATOM	15406	NH2	ARG	G	963	29.586	119.902	69.307	1.00	54.04	G
ATOM	15407	C	ARG	G	963	27.806	121.557	62.514	1.00	99.81	G
ATOM	15408	O	ARG	G	963	28.276	122.695	62.493	1.00	99.81	G
ATOM	15409	N	TYR	G	964	28.536	120.474	62.223	1.00	59.83	G
ATOM	15410	CA	TYR	G	964	29.965	120.576	61.895	1.00	59.83	G
ATOM	15411	CB	TYR	G	964	30.638	119.204	61.920	1.00	96.05	G
ATOM	15412	CG	TYR	G	964	30.789	118.613	63.306	1.00	96.05	G
ATOM	15413	CD1	TYR	G	964	29.684	118.133	64.006	1.00	96.05	G
ATOM	15414	CE1	TYR	G	964	29.822	117.572	65.261	1.00	96.05	G
ATOM	15415	CD2	TYR	G	964	32.042	118.517	63.908	1.00	96.05	G
ATOM	15416	CE2	TYR	G	964	32.190	117.957	65.164	1.00	96.05	G
ATOM	15417	CZ	TYR	G	964	31.077	117.483	65.836	1.00	96.05	G
ATOM	15418	OH	TYR	G	964	31.223	116.901	67.077	1.00	96.05	G

ATOM	15419	C	TYR	G	964	30.135	121.210	60.527	1.00	59.83	G
ATOM	15420	O	TYR	G	964	31.088	121.950	60.277	1.00	59.83	G
ATOM	15421	N	LEU	G	965	29.219	120.877	59.629	1.00	67.15	G
ATOM	15422	CA	LEU	G	965	29.207	121.483	58.314	1.00	67.15	G
ATOM	15423	CB	LEU	G	965	28.290	120.715	57.366	1.00	37.73	G
ATOM	15424	CG	LEU	G	965	28.954	119.741	56.395	1.00	37.73	G
ATOM	15425	CD1	LEU	G	965	29.579	120.523	55.269	1.00	37.73	G
ATOM	15426	CD2	LEU	G	965	30.002	118.901	57.109	1.00	37.73	G
ATOM	15427	C	LEU	G	965	28.565	122.800	58.691	1.00	67.15	G
ATOM	15428	O	LEU	G	965	28.130	122.960	59.833	1.00	67.15	G
ATOM	15429	N	GLU	G	966	28.482	123.738	57.762	1.00	60.94	G
ATOM	15430	CA	GLU	G	966	27.886	125.020	58.090	1.00	60.94	G
ATOM	15431	CB	GLU	G	966	26.510	124.837	58.729	1.00	84.32	G
ATOM	15432	CG	GLU	G	966	25.885	126.154	59.055	1.00	84.32	G
ATOM	15433	CD	GLU	G	966	26.086	127.143	57.928	1.00	84.32	G
ATOM	15434	OE1	GLU	G	966	25.421	126.998	56.884	1.00	84.32	G
ATOM	15435	OE2	GLU	G	966	26.925	128.052	58.076	1.00	84.32	G
ATOM	15436	C	GLU	G	966	28.812	125.758	59.045	1.00	60.94	G
ATOM	15437	O	GLU	G	966	29.256	126.850	58.734	1.00	60.94	G
ATOM	15438	N	GLU	G	967	29.091	125.188	60.217	1.00	53.77	G
ATOM	15439	CA	GLU	G	967	30.026	125.844	61.123	1.00	53.77	G
ATOM	15440	CB	GLU	G	967	30.360	124.982	62.338	1.00	91.99	G
ATOM	15441	CG	GLU	G	967	29.328	125.037	63.442	1.00	91.99	G
ATOM	15442	CD	GLU	G	967	29.883	124.556	64.764	1.00	91.99	G
ATOM	15443	OE1	GLU	G	967	30.588	123.528	64.768	1.00	91.99	G
ATOM	15444	OE2	GLU	G	967	29.613	125.200	65.800	1.00	91.99	G
ATOM	15445	C	GLU	G	967	31.234	125.937	60.226	1.00	53.77	G
ATOM	15446	O	GLU	G	967	31.886	126.975	60.116	1.00	53.77	G
ATOM	15447	N	ALA	G	968	31.518	124.829	59.564	1.00	42.86	G
ATOM	15448	CA	ALA	G	968	32.615	124.819	58.634	1.00	42.86	G
ATOM	15449	CB	ALA	G	968	32.560	123.564	57.780	1.00	100.07	G
ATOM	15450	C	ALA	G	968	32.319	126.061	57.796	1.00	42.86	G
ATOM	15451	O	ALA	G	968	33.150	126.964	57.691	1.00	42.86	G
ATOM	15452	N	ASP	G	969	31.111	126.108	57.238	1.00	60.16	G
ATOM	15453	CA	ASP	G	969	30.682	127.242	56.426	1.00	60.16	G
ATOM	15454	CB	ASP	G	969	29.268	127.017	55.886	1.00	100.07	G
ATOM	15455	CG	ASP	G	969	29.192	125.866	54.908	1.00	100.07	G
ATOM	15456	OD1	ASP	G	969	29.842	125.939	53.841	1.00	100.07	G
ATOM	15457	OD2	ASP	G	969	28.476	124.888	55.206	1.00	100.07	G
ATOM	15458	C	ASP	G	969	30.703	128.524	57.253	1.00	60.16	G
ATOM	15459	O	ASP	G	969	31.718	128.838	57.867	1.00	60.16	G
ATOM	15460	N	ARG	G	970	29.565	129.229	57.281	1.00	66.13	G
ATOM	15461	CA	ARG	G	970	29.389	130.505	57.998	1.00	66.13	G
ATOM	15462	CB	ARG	G	970	28.495	130.340	59.247	1.00	100.07	G
ATOM	15463	CG	ARG	G	970	29.156	129.686	60.461	1.00	100.07	G
ATOM	15464	CD	ARG	G	970	28.290	129.738	61.734	1.00	100.07	G
ATOM	15465	NE	ARG	G	970	29.079	129.408	62.924	1.00	100.07	G
ATOM	15466	CZ	ARG	G	970	28.574	129.218	64.136	1.00	100.07	G
ATOM	15467	NH1	ARG	G	970	27.269	129.319	64.336	1.00	100.07	G
ATOM	15468	NH2	ARG	G	970	29.377	128.928	65.151	1.00	100.07	G
ATOM	15469	C	ARG	G	970	30.716	131.138	58.374	1.00	66.13	G
ATOM	15470	O	ARG	G	970	31.054	132.200	57.855	1.00	66.13	G
ATOM	15471	N	LYS	G	971	31.466	130.488	59.263	1.00	35.90	G
ATOM	15472	CA	LYS	G	971	32.777	130.973	59.666	1.00	35.90	G
ATOM	15473	CB	LYS	G	971	33.341	130.134	60.812	1.00	88.31	G
ATOM	15474	CG	LYS	G	971	32.571	130.325	62.110	1.00	88.31	G
ATOM	15475	CD	LYS	G	971	33.108	129.475	63.253	1.00	88.31	G
ATOM	15476	CE	LYS	G	971	32.252	129.658	64.495	1.00	88.31	G
ATOM	15477	NZ	LYS	G	971	32.805	128.925	65.659	1.00	88.31	G
ATOM	15478	C	LYS	G	971	33.671	130.866	58.438	1.00	35.90	G
ATOM	15479	O	LYS	G	971	34.901	130.803	58.554	1.00	35.90	G
ATOM	15480	N	LEU	G	972	33.015	130.839	57.269	1.00	52.38	G
ATOM	15481	CA	LEU	G	972	33.636	130.763	55.944	1.00	52.38	G
ATOM	15482	CB	LEU	G	972	32.990	129.654	55.100	1.00	78.81	G
ATOM	15483	CG	LEU	G	972	33.806	128.378	54.844	1.00	78.81	G
ATOM	15484	CD1	LEU	G	972	32.920	127.316	54.222	1.00	78.81	G
ATOM	15485	CD2	LEU	G	972	34.992	128.688	53.930	1.00	78.81	G
ATOM	15486	C	LEU	G	972	33.397	132.108	55.281	1.00	52.38	G
ATOM	15487	O	LEU	G	972	34.309	132.710	54.727	1.00	52.38	G
ATOM	15488	N	ARG	G	973	32.151	132.565	55.331	1.00	30.63	G
ATOM	15489	CA	ARG	G	973	31.800	133.863	54.776	1.00	30.63	G
ATOM	15490	CB	ARG	G	973	30.288	134.083	54.794	1.00	100.07	G
ATOM	15491	CG	ARG	G	973	29.478	133.043	54.042	1.00	100.07	G
ATOM	15492	CD	ARG	G	973	28.040	133.524	53.852	1.00	100.07	G
ATOM	15493	NE	ARG	G	973	27.192	132.529	53.194	1.00	100.07	G
ATOM	15494	CZ	ARG	G	973	26.032	132.802	52.598	1.00	100.07	G
ATOM	15495	NH1	ARG	G	973	25.574	134.047	52.567	1.00	100.07	G
ATOM	15496	NH2	ARG	G	973	25.322	131.827	52.039	1.00	100.07	G
ATOM	15497	C	ARG	G	973	32.464	134.843	55.728	1.00	30.63	G
ATOM	15498	O	ARG	G	973	32.840	135.946	55.343	1.00	30.63	G
ATOM	15499	N	GLN	G	974	32.599	134.431	56.987	1.00	51.16	G
ATOM	15500	CA	GLN	G	974	33.260	135.268	57.985	1.00	51.16	G
ATOM	15501	CB	GLN	G	974	33.129	134.678	59.408	1.00	99.53	G
ATOM	15502	CG	GLN	G	974	31.688	134.496	59.927	1.00	99.53	G

ATOM	15503	CD	GLN	G	974	31.607	134.163	61.424	1.00	99.53	G
ATOM	15504	OE1	GLN	G	974	32.313	133.287	61.928	1.00	99.53	G
ATOM	15505	NE2	GLN	G	974	30.727	134.859	62.129	1.00	99.53	G
ATOM	15506	C	GLN	G	974	34.735	135.321	57.580	1.00	51.16	G
ATOM	15507	O	GLN	G	974	35.537	136.038	58.188	1.00	51.16	G
ATOM	15508	N	ILE	G	975	35.076	134.532	56.559	1.00	73.80	G
ATOM	15509	CA	ILE	G	975	36.431	134.480	56.018	1.00	73.80	G
ATOM	15510	CB	ILE	G	975	36.876	133.048	55.639	1.00	69.60	G
ATOM	15511	CG2	ILE	G	975	38.374	133.046	55.334	1.00	69.60	G
ATOM	15512	CG1	ILE	G	975	36.519	132.062	56.750	1.00	69.60	G
ATOM	15513	CD	ILE	G	975	37.703	131.415	57.428	1.00	69.60	G
ATOM	15514	C	ILE	G	975	36.376	135.271	54.723	1.00	73.80	G
ATOM	15515	O	ILE	G	975	37.146	136.202	54.515	1.00	73.80	G
ATOM	15516	N	GLU	G	976	35.450	134.879	53.855	1.00	100.07	G
ATOM	15517	CA	GLU	G	976	35.260	135.533	52.564	1.00	100.07	G
ATOM	15518	CB	GLU	G	976	34.044	134.926	51.846	1.00	100.07	G
ATOM	15519	CG	GLU	G	976	34.101	133.401	51.687	1.00	100.07	G
ATOM	15520	CD	GLU	G	976	34.875	132.942	50.454	1.00	100.07	G
ATOM	15521	OE1	GLU	G	976	34.250	132.805	49.378	1.00	100.07	G
ATOM	15522	OE2	GLU	G	976	36.103	132.723	50.561	1.00	100.07	G
ATOM	15523	C	GLU	G	976	35.046	137.032	52.777	1.00	100.07	G
ATOM	15524	O	GLU	G	976	35.492	137.856	51.973	1.00	100.07	G
ATOM	15525	N	GLN	G	977	34.358	137.374	53.865	1.00	83.23	G
ATOM	15526	CA	GLN	G	977	34.090	138.767	54.187	1.00	83.23	G
ATOM	15527	CB	GLN	G	977	32.725	138.920	54.863	1.00	100.07	G
ATOM	15528	CG	GLN	G	977	31.546	138.556	53.958	1.00	100.07	G
ATOM	15529	CD	GLN	G	977	30.210	139.054	54.490	1.00	100.07	G
ATOM	15530	OE1	GLN	G	977	29.901	140.247	54.414	1.00	100.07	G
ATOM	15531	NE2	GLN	G	977	29.415	138.141	55.041	1.00	100.07	G
ATOM	15532	C	GLN	G	977	35.190	139.304	55.084	1.00	83.23	G
ATOM	15533	O	GLN	G	977	35.227	140.495	55.389	1.00	83.23	G
ATOM	15534	N	ALA	G	978	36.081	138.412	55.509	1.00	32.65	G
ATOM	15535	CA	ALA	G	978	37.218	138.798	56.343	1.00	32.65	G
ATOM	15536	CB	ALA	G	978	37.604	137.656	57.273	1.00	100.07	G
ATOM	15537	C	ALA	G	978	38.377	139.129	55.390	1.00	32.65	G
ATOM	15538	O	ALA	G	978	39.435	139.601	55.807	1.00	32.65	G
ATOM	15539	N	ALA	G	979	38.170	138.850	54.107	1.00	95.90	G
ATOM	15540	CA	ALA	G	979	39.175	139.143	53.099	1.00	95.90	G
ATOM	15541	CB	ALA	G	979	39.123	138.128	51.968	1.00	100.07	G
ATOM	15542	C	ALA	G	979	38.827	140.526	52.586	1.00	95.90	G
ATOM	15543	O	ALA	G	979	39.700	141.376	52.422	1.00	95.90	G
ATOM	15544	N	GLU	G	980	37.538	140.741	52.333	1.00	100.05	G
ATOM	15545	CA	GLU	G	980	37.050	142.033	51.870	1.00	100.05	G
ATOM	15546	CB	GLU	G	980	35.573	141.924	51.468	1.00	99.45	G
ATOM	15547	CG	GLU	G	980	35.306	140.904	50.353	1.00	99.45	G
ATOM	15548	CD	GLU	G	980	33.822	140.758	49.996	1.00	99.45	G
ATOM	15549	OE1	GLU	G	980	33.045	140.253	50.839	1.00	99.45	G
ATOM	15550	OE2	GLU	G	980	33.433	141.149	48.868	1.00	99.45	G
ATOM	15551	C	GLU	G	980	37.225	142.964	53.071	1.00	100.05	G
ATOM	15552	O	GLU	G	980	36.253	143.369	53.712	1.00	100.05	G
ATOM	15553	N	MET	G	981	38.489	143.270	53.365	1.00	71.76	G
ATOM	15554	CA	MET	G	981	38.909	144.114	54.484	1.00	71.76	G
ATOM	15555	CB	MET	G	981	38.143	143.754	55.758	1.00	45.47	G
ATOM	15556	CG	MET	G	981	37.002	144.675	56.121	1.00	45.47	G
ATOM	15557	SD	MET	G	981	35.923	143.864	57.316	1.00	45.47	G
ATOM	15558	CE	MET	G	981	34.615	143.305	56.204	1.00	45.47	G
ATOM	15559	C	MET	G	981	40.383	143.803	54.710	1.00	71.76	G
ATOM	15560	O	MET	G	981	41.166	143.726	53.762	1.00	71.76	G
ATOM	15561	N	GLY	G	982	40.746	143.606	55.971	1.00	75.90	G
ATOM	15562	CA	GLY	G	982	42.119	143.287	56.306	1.00	75.90	G
ATOM	15563	C	GLY	G	982	42.354	141.798	56.158	1.00	75.90	G
ATOM	15564	O	GLY	G	982	42.964	141.167	57.029	1.00	75.90	G
ATOM	15565	N	ALA	G	983	41.855	141.252	55.046	1.00	100.07	G
ATOM	15566	CA	ALA	G	983	41.964	139.830	54.702	1.00	100.07	G
ATOM	15567	CB	ALA	G	983	42.307	139.665	53.204	1.00	32.44	G
ATOM	15568	C	ALA	G	983	43.003	139.113	55.533	1.00	100.07	G
ATOM	15569	O	ALA	G	983	42.671	138.387	56.470	1.00	100.07	G
ATOM	15570	N	LEU	G	984	44.256	139.343	55.152	1.00	83.75	G
ATOM	15571	CA	LEU	G	984	45.453	138.777	55.764	1.00	83.75	G
ATOM	15572	CB	LEU	G	984	45.126	137.645	56.745	1.00	100.07	G
ATOM	15573	CG	LEU	G	984	44.647	138.015	58.151	1.00	100.07	G
ATOM	15574	CD1	LEU	G	984	44.551	136.742	58.987	1.00	100.07	G
ATOM	15575	CD2	LEU	G	984	45.608	139.012	58.796	1.00	100.07	G
ATOM	15576	C	LEU	G	984	46.338	138.225	54.654	1.00	83.75	G
ATOM	15577	O	LEU	G	984	47.294	137.492	54.923	1.00	83.75	G
ATOM	15578	N	THR	G	985	46.010	138.586	53.413	1.00	74.79	G
ATOM	15579	CA	THR	G	985	46.743	138.135	52.231	1.00	74.79	G
ATOM	15580	CB	THR	G	985	48.236	137.839	52.512	1.00	50.42	G
ATOM	15581	OG1	THR	G	985	48.754	138.751	53.489	1.00	50.42	G
ATOM	15582	CG2	THR	G	985	49.043	137.944	51.211	1.00	50.42	G
ATOM	15583	C	THR	G	985	46.154	136.822	51.741	1.00	74.79	G
ATOM	15584	O	THR	G	985	45.797	135.953	52.542	1.00	74.79	G
ATOM	15585	N	ASP	G	986	46.073	136.663	50.427	1.00	99.98	G
ATOM	15586	CA	ASP	G	986	45.546	135.429	49.860	1.00	99.98	G

ATOM	15587	CB	ASP	G	986	45.780	135.417	48.340	1.00	70.09	G
ATOM	15588	CG	ASP	G	986	44.960	134.362	47.623	1.00	70.09	G
ATOM	15589	OD1	ASP	G	986	43.716	134.381	47.743	1.00	70.09	G
ATOM	15590	OD2	ASP	G	986	45.564	133.518	46.928	1.00	70.09	G
ATOM	15591	C	ASP	G	986	46.287	134.273	50.551	1.00	99.98	G
ATOM	15592	O	ASP	G	986	45.659	133.376	51.113	1.00	99.98	G
ATOM	15593	N	ARG	G	987	47.620	134.333	50.533	1.00	78.96	G
ATOM	15594	CA	ARG	G	987	48.476	133.318	51.150	1.00	78.96	G
ATOM	15595	CB	ARG	G	987	49.862	133.885	51.463	1.00	100.07	G
ATOM	15596	CG	ARG	G	987	50.903	133.739	50.375	1.00	100.07	G
ATOM	15597	CD	ARG	G	987	52.304	133.890	50.976	1.00	100.07	G
ATOM	15598	NE	ARG	G	987	53.366	133.604	50.014	1.00	100.07	G
ATOM	15599	CZ	ARG	G	987	54.645	133.435	50.339	1.00	100.07	G
ATOM	15600	NH1	ARG	G	987	55.033	133.522	51.604	1.00	100.07	G
ATOM	15601	NH2	ARG	G	987	55.541	133.173	49.398	1.00	100.07	G
ATOM	15602	C	ARG	G	987	47.929	132.757	52.445	1.00	78.96	G
ATOM	15603	O	ARG	G	987	47.896	131.542	52.639	1.00	78.96	G
ATOM	15604	N	GLU	G	988	47.520	133.652	53.339	1.00	41.85	G
ATOM	15605	CA	GLU	G	988	47.013	133.241	54.639	1.00	41.85	G
ATOM	15606	CB	GLU	G	988	47.095	134.407	55.617	1.00	100.07	G
ATOM	15607	CG	GLU	G	988	48.452	135.095	55.588	1.00	100.07	G
ATOM	15608	CD	GLU	G	988	49.597	134.125	55.316	1.00	100.07	G
ATOM	15609	OE1	GLU	G	988	49.717	133.122	56.055	1.00	100.07	G
ATOM	15610	OE2	GLU	G	988	50.375	134.368	54.364	1.00	100.07	G
ATOM	15611	C	GLU	G	988	45.598	132.724	54.541	1.00	41.85	G
ATOM	15612	O	GLU	G	988	45.237	131.746	55.198	1.00	41.85	G
ATOM	15613	N	ARG	G	989	44.803	133.374	53.700	1.00	56.58	G
ATOM	15614	CA	ARG	G	989	43.423	132.964	53.505	1.00	56.58	G
ATOM	15615	CB	ARG	G	989	42.772	133.839	52.442	1.00	52.10	G
ATOM	15616	CG	ARG	G	989	41.293	134.030	52.648	1.00	52.10	G
ATOM	15617	CD	ARG	G	989	40.804	135.169	51.789	1.00	52.10	G
ATOM	15618	NE	ARG	G	989	39.617	134.794	51.032	1.00	52.10	G
ATOM	15619	CZ	ARG	G	989	39.570	133.783	50.172	1.00	52.10	G
ATOM	15620	NH1	ARG	G	989	40.650	133.033	49.954	1.00	52.10	G
ATOM	15621	NH2	ARG	G	989	38.437	133.523	49.531	1.00	52.10	G
ATOM	15622	C	ARG	G	989	43.408	131.489	53.090	1.00	56.58	G
ATOM	15623	O	ARG	G	989	42.542	130.730	53.521	1.00	56.58	G
ATOM	15624	N	TYR	G	990	44.366	131.094	52.248	1.00	100.07	G
ATOM	15625	CA	TYR	G	990	44.479	129.692	51.838	1.00	100.07	G
ATOM	15626	CB	TYR	G	990	45.761	129.407	51.030	1.00	89.18	G
ATOM	15627	CG	TYR	G	990	45.707	129.578	49.527	1.00	89.18	G
ATOM	15628	CD1	TYR	G	990	46.894	129.680	48.791	1.00	89.18	G
ATOM	15629	CE1	TYR	G	990	46.877	129.881	47.420	1.00	89.18	G
ATOM	15630	CD2	TYR	G	990	44.493	129.671	48.842	1.00	89.18	G
ATOM	15631	CE2	TYR	G	990	44.464	129.872	47.461	1.00	89.18	G
ATOM	15632	CZ	TYR	G	990	45.661	129.981	46.762	1.00	89.18	G
ATOM	15633	OH	TYR	G	990	45.651	130.229	45.412	1.00	89.18	G
ATOM	15634	C	TYR	G	990	44.660	128.993	53.167	1.00	100.07	G
ATOM	15635	O	TYR	G	990	43.753	128.339	53.685	1.00	100.07	G
ATOM	15636	N	ASP	G	991	45.858	129.177	53.715	1.00	45.67	G
ATOM	15637	CA	ASP	G	991	46.252	128.578	54.969	1.00	45.67	G
ATOM	15638	CB	ASP	G	991	47.458	129.321	55.530	1.00	54.88	G
ATOM	15639	CG	ASP	G	991	48.608	129.375	54.544	1.00	54.88	G
ATOM	15640	OD1	ASP	G	991	48.575	128.625	53.546	1.00	54.88	G
ATOM	15641	OD2	ASP	G	991	49.549	130.158	54.768	1.00	54.88	G
ATOM	15642	C	ASP	G	991	45.120	128.557	55.971	1.00	45.67	G
ATOM	15643	O	ASP	G	991	45.107	127.732	56.872	1.00	45.67	G
ATOM	15644	N	GLN	G	992	44.161	129.459	55.801	1.00	54.42	G
ATOM	15645	CA	GLN	G	992	43.008	129.534	56.695	1.00	54.42	G
ATOM	15646	CB	GLN	G	992	42.394	130.937	56.637	1.00	66.37	G
ATOM	15647	CG	GLN	G	992	41.570	131.321	57.846	1.00	66.37	G
ATOM	15648	CD	GLN	G	992	42.399	131.350	59.116	1.00	66.37	G
ATOM	15649	OE1	GLN	G	992	43.593	131.674	59.090	1.00	66.37	G
ATOM	15650	NE2	GLN	G	992	41.767	131.025	60.241	1.00	66.37	G
ATOM	15651	C	GLN	G	992	41.978	128.511	56.234	1.00	54.42	G
ATOM	15652	O	GLN	G	992	41.833	127.442	56.825	1.00	54.42	G
ATOM	15653	N	VAL	G	993	41.280	128.861	55.156	1.00	72.53	G
ATOM	15654	CA	VAL	G	993	40.253	128.016	54.564	1.00	72.53	G
ATOM	15655	CB	VAL	G	993	39.999	128.415	53.097	1.00	58.92	G
ATOM	15656	CG1	VAL	G	993	38.613	127.939	52.664	1.00	58.92	G
ATOM	15657	CG2	VAL	G	993	40.129	129.928	52.932	1.00	58.92	G
ATOM	15658	C	VAL	G	993	40.681	126.552	54.619	1.00	72.53	G
ATOM	15659	O	VAL	G	993	39.864	125.653	54.823	1.00	72.53	G
ATOM	15660	N	ILE	G	994	41.972	126.321	54.432	1.00	34.12	G
ATOM	15661	CA	ILE	G	994	42.505	124.975	54.484	1.00	34.12	G
ATOM	15662	CB	ILE	G	994	43.914	124.909	53.875	1.00	45.82	G
ATOM	15663	CG2	ILE	G	994	44.679	123.732	54.441	1.00	45.82	G
ATOM	15664	CG1	ILE	G	994	43.792	124.803	52.352	1.00	45.82	G
ATOM	15665	CD	ILE	G	994	45.011	125.269	51.567	1.00	45.82	G
ATOM	15666	C	ILE	G	994	42.555	124.555	55.931	1.00	34.12	G
ATOM	15667	O	ILE	G	994	41.850	123.640	56.346	1.00	34.12	G
ATOM	15668	N	GLN	G	995	43.375	125.241	56.710	1.00	43.22	G
ATOM	15669	CA	GLN	G	995	43.482	124.900	58.114	1.00	43.22	G
ATOM	15670	CB	GLN	G	995	44.263	125.970	58.874	1.00	100.07	G

ATOM	15671	CG	GLN	G	995	44.708	125.547	60.264	1.00100.07	G
ATOM	15672	CD	GLN	G	995	45.751	126.484	60.847	1.00100.07	G
ATOM	15673	OE1	GLN	G	995	45.488	127.669	61.077	1.00100.07	G
ATOM	15674	NE2	GLN	G	995	46.949	125.958	61.083	1.00100.07	G
ATOM	15675	C	GLN	G	995	42.071	124.791	58.657	1.00 43.22	G
ATOM	15676	O	GLN	G	995	41.827	124.107	59.646	1.00 43.22	G
ATOM	15677	N	LEU	G	996	41.134	125.471	58.010	1.00 48.66	G
ATOM	15678	CA	LEU	G	996	39.754	125.395	58.447	1.00 48.66	G
ATOM	15679	CB	LEU	G	996	38.888	126.424	57.714	1.00 24.68	G
ATOM	15680	CG	LEU	G	996	37.379	126.150	57.639	1.00 24.68	G
ATOM	15681	CD1	LEU	G	996	36.837	125.913	59.035	1.00 24.68	G
ATOM	15682	CD2	LEU	G	996	36.665	127.306	56.951	1.00 24.68	G
ATOM	15683	C	LEU	G	996	39.283	123.994	58.119	1.00 48.66	G
ATOM	15684	O	LEU	G	996	39.166	123.147	58.999	1.00 48.66	G
ATOM	15685	N	TRP	G	997	39.044	123.751	56.835	1.00 24.05	G
ATOM	15686	CA	TRP	G	997	38.561	122.458	56.387	1.00 24.05	G
ATOM	15687	CB	TRP	G	997	38.665	122.366	54.875	1.00 29.82	G
ATOM	15688	CG	TRP	G	997	37.605	123.170	54.247	1.00 29.82	G
ATOM	15689	CD2	TRP	G	997	36.191	123.017	54.431	1.00 29.82	G
ATOM	15690	CE2	TRP	G	997	35.557	124.006	53.649	1.00 29.82	G
ATOM	15691	CE3	TRP	G	997	35.398	122.136	55.179	1.00 29.82	G
ATOM	15692	CD1	TRP	G	997	37.769	124.212	53.395	1.00 29.82	G
ATOM	15693	NE1	TRP	G	997	36.545	124.724	53.026	1.00 29.82	G
ATOM	15694	CZ2	TRP	G	997	34.158	124.143	53.591	1.00 29.82	G
ATOM	15695	CZ3	TRP	G	997	34.009	122.270	55.122	1.00 29.82	G
ATOM	15696	CH2	TRP	G	997	33.405	123.268	54.331	1.00 29.82	G
ATOM	15697	C	TRP	G	997	39.293	121.329	57.060	1.00 24.05	G
ATOM	15698	O	TRP	G	997	38.693	120.333	57.460	1.00 24.05	G
ATOM	15699	N	THR	G	998	40.596	121.495	57.206	1.00 38.79	G
ATOM	15700	CA	THR	G	998	41.382	120.478	57.861	1.00 38.79	G
ATOM	15701	CB	THR	G	998	42.862	120.874	57.908	1.00 75.07	G
ATOM	15702	OG1	THR	G	998	43.425	120.758	56.595	1.00 75.07	G
ATOM	15703	CG2	THR	G	998	43.622	119.982	58.875	1.00 75.07	G
ATOM	15704	C	THR	G	998	40.837	120.343	59.270	1.00 38.79	G
ATOM	15705	O	THR	G	998	40.408	119.270	59.682	1.00 38.79	G
ATOM	15706	N	GLU	G	999	40.831	121.453	59.996	1.00 73.09	G
ATOM	15707	CA	GLU	G	999	40.344	121.486	61.367	1.00 73.09	G
ATOM	15708	CB	GLU	G	999	40.299	122.943	61.845	1.00 99.81	G
ATOM	15709	CG	GLU	G	999	39.789	123.164	63.261	1.00 99.81	G
ATOM	15710	CD	GLU	G	999	40.741	124.002	64.107	1.00 99.81	G
ATOM	15711	OE1	GLU	G	999	41.475	124.844	63.541	1.00 99.81	G
ATOM	15712	OE2	GLU	G	999	40.742	123.822	65.346	1.00 99.81	G
ATOM	15713	C	GLU	G	999	38.975	120.813	61.531	1.00 73.09	G
ATOM	15714	O	GLU	G	999	38.788	120.018	62.447	1.00 73.09	G
ATOM	15715	N	THR	G1000		38.027	121.108	60.646	1.00 65.50	G
ATOM	15716	CA	THR	G1000		36.699	120.503	60.761	1.00 65.50	G
ATOM	15717	CB	THR	G1000		35.631	121.226	59.885	1.00 71.39	G
ATOM	15718	OG1	THR	G1000		34.366	120.555	60.007	1.00 71.39	G
ATOM	15719	CG2	THR	G1000		36.047	121.235	58.425	1.00 71.39	G
ATOM	15720	C	THR	G1000		36.703	119.037	60.381	1.00 65.50	G
ATOM	15721	O	THR	G1000		36.282	118.195	61.166	1.00 65.50	G
ATOM	15722	N	THR	G1001		37.182	118.736	59.179	1.00 66.70	G
ATOM	15723	CA	THR	G1001		37.227	117.363	58.693	1.00 66.70	G
ATOM	15724	CB	THR	G1001		38.076	117.269	57.394	1.00 47.40	G
ATOM	15725	OG1	THR	G1001		37.222	116.909	56.299	1.00 47.40	G
ATOM	15726	CG2	THR	G1001		39.197	116.237	57.530	1.00 47.40	G
ATOM	15727	C	THR	G1001		37.749	116.380	59.745	1.00 66.70	G
ATOM	15728	O	THR	G1001		37.316	115.231	59.791	1.00 66.70	G
ATOM	15729	N	GLU	G1002		38.669	116.829	60.593	1.00 46.81	G
ATOM	15730	CA	GLU	G1002		39.207	115.959	61.633	1.00 46.81	G
ATOM	15731	CB	GLU	G1002		40.405	116.615	62.348	1.00100.07	G
ATOM	15732	CG	GLU	G1002		41.697	116.709	61.514	1.00100.07	G
ATOM	15733	CD	GLU	G1002		42.922	117.150	62.328	1.00100.07	G
ATOM	15734	OE1	GLU	G1002		42.865	118.224	62.969	1.00100.07	G
ATOM	15735	OE2	GLU	G1002		43.946	116.426	62.319	1.00100.07	G
ATOM	15736	C	GLU	G1002		38.134	115.611	62.662	1.00 46.81	G
ATOM	15737	O	GLU	G1002		38.270	114.632	63.394	1.00 46.81	G
ATOM	15738	N	LYS	G1003		37.067	116.408	62.713	1.00 54.21	G
ATOM	15739	CA	LYS	G1003		35.989	116.182	63.672	1.00 54.21	G
ATOM	15740	CB	LYS	G1003		35.452	117.510	64.199	1.00 99.60	G
ATOM	15741	CG	LYS	G1003		36.027	117.896	65.557	1.00 99.60	G
ATOM	15742	CD	LYS	G1003		35.454	119.220	66.032	1.00 99.60	G
ATOM	15743	CE	LYS	G1003		36.013	119.631	67.379	1.00 99.60	G
ATOM	15744	NZ	LYS	G1003		35.569	121.010	67.719	1.00 99.60	G
ATOM	15745	C	LYS	G1003		34.828	115.324	63.195	1.00 54.21	G
ATOM	15746	O	LYS	G1003		34.446	114.388	63.880	1.00 54.21	G
ATOM	15747	N	VAL	G1004		34.247	115.623	62.040	1.00 13.25	G
ATOM	15748	CA	VAL	G1004		33.147	114.798	61.574	1.00 13.25	G
ATOM	15749	CB	VAL	G1004		32.758	115.080	60.144	1.00 5.22	G
ATOM	15750	CG1	VAL	G1004		31.309	114.716	59.982	1.00 5.22	G
ATOM	15751	CG2	VAL	G1004		33.007	116.540	59.778	1.00 5.22	G
ATOM	15752	C	VAL	G1004		33.640	113.369	61.628	1.00 13.25	G
ATOM	15753	O	VAL	G1004		32.847	112.434	61.689	1.00 13.25	G
ATOM	15754	N	THR	G1005		34.964	113.216	61.593	1.00 29.83	G

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ATOM	15755	CA	THR	G1005	35.617	111.912	61.692	1.00	29.83	G
ATOM	15756	CB	THR	G1005	37.144	112.039	61.555	1.00	100.07	G
ATOM	15757	OG1	THR	G1005	37.474	112.585	60.273	1.00	100.07	G
ATOM	15758	CG2	THR	G1005	37.803	110.682	61.717	1.00	100.07	G
ATOM	15759	C	THR	G1005	35.328	111.397	63.102	1.00	29.83	G
ATOM	15760	O	THR	G1005	34.555	110.461	63.302	1.00	29.83	G
ATOM	15761	N	GLN	G1006	35.968	112.032	64.078	1.00	20.60	G
ATOM	15762	CA	GLN	G1006	35.802	111.716	65.494	1.00	20.60	G
ATOM	15763	CB	GLN	G1006	36.556	112.772	66.307	1.00	99.92	G
ATOM	15764	CG	GLN	G1006	36.337	112.758	67.796	1.00	99.92	G
ATOM	15765	CD	GLN	G1006	36.748	114.077	68.425	1.00	99.92	G
ATOM	15766	OE1	GLN	G1006	36.080	115.100	68.253	1.00	99.92	G
ATOM	15767	NE2	GLN	G1006	37.862	114.065	69.142	1.00	99.92	G
ATOM	15768	C	GLN	G1006	34.307	111.732	65.841	1.00	20.60	G
ATOM	15769	O	GLN	G1006	33.881	111.172	66.841	1.00	20.60	G
ATOM	15770	N	ALA	G1007	33.515	112.382	64.995	1.00	31.60	G
ATOM	15771	CA	ALA	G1007	32.076	112.492	65.198	1.00	31.60	G
ATOM	15772	CB	ALA	G1007	31.524	113.653	64.391	1.00	95.22	G
ATOM	15773	C	ALA	G1007	31.433	111.210	64.750	1.00	31.60	G
ATOM	15774	O	ALA	G1007	31.092	110.357	65.563	1.00	31.60	G
ATOM	15775	N	VAL	G1008	31.276	111.090	63.438	1.00	32.17	G
ATOM	15776	CA	VAL	G1008	30.690	109.907	62.830	1.00	32.17	G
ATOM	15777	CB	VAL	G1008	30.996	109.855	61.349	1.00	100.07	G
ATOM	15778	CG1	VAL	G1008	30.366	108.621	60.752	1.00	100.07	G
ATOM	15779	CG2	VAL	G1008	30.492	111.112	60.679	1.00	100.07	G
ATOM	15780	C	VAL	G1008	31.239	108.630	63.446	1.00	32.17	G
ATOM	15781	O	VAL	G1008	30.519	107.653	63.636	1.00	32.17	G
ATOM	15782	N	PHE	G1009	32.524	108.650	63.762	1.00	59.69	G
ATOM	15783	CA	PHE	G1009	33.172	107.490	64.340	1.00	59.69	G
ATOM	15784	CB	PHE	G1009	34.681	107.590	64.169	1.00	53.76	G
ATOM	15785	CG	PHE	G1009	35.331	106.286	63.850	1.00	53.76	G
ATOM	15786	CD1	PHE	G1009	35.590	105.935	62.538	1.00	53.76	G
ATOM	15787	CD2	PHE	G1009	35.663	105.399	64.860	1.00	53.76	G
ATOM	15788	CE1	PHE	G1009	36.169	104.727	62.234	1.00	53.76	G
ATOM	15789	CE2	PHE	G1009	36.242	104.186	64.567	1.00	53.76	G
ATOM	15790	CZ	PHE	G1009	36.497	103.849	63.250	1.00	53.76	G
ATOM	15791	C	PHE	G1009	32.866	107.332	65.815	1.00	59.69	G
ATOM	15792	O	PHE	G1009	33.252	106.342	66.432	1.00	59.69	G
ATOM	15793	N	ASN	G1010	32.175	108.307	66.385	1.00	80.37	G
ATOM	15794	CA	ASN	G1010	31.854	108.250	67.804	1.00	80.37	G
ATOM	15795	CB	ASN	G1010	32.055	109.625	68.434	1.00	100.07	G
ATOM	15796	CG	ASN	G1010	32.197	109.554	69.929	1.00	100.07	G
ATOM	15797	OD1	ASN	G1010	31.345	108.984	70.613	1.00	100.07	G
ATOM	15798	ND2	ASN	G1010	33.280	110.130	70.453	1.00	100.07	G
ATOM	15799	C	ASN	G1010	30.425	107.789	68.035	1.00	80.37	G
ATOM	15800	O	ASN	G1010	30.128	107.112	69.026	1.00	80.37	G
ATOM	15801	N	ASN	G1011	29.553	108.163	67.100	1.00	51.35	G
ATOM	15802	CA	ASN	G1011	28.143	107.822	67.167	1.00	51.35	G
ATOM	15803	CB	ASN	G1011	27.463	108.003	65.807	1.00	24.43	G
ATOM	15804	CG	ASN	G1011	25.942	107.939	65.909	1.00	24.43	G
ATOM	15805	OD1	ASN	G1011	25.399	107.794	67.008	1.00	24.43	G
ATOM	15806	ND2	ASN	G1011	25.249	108.052	64.771	1.00	24.43	G
ATOM	15807	C	ASN	G1011	27.937	106.395	67.611	1.00	51.35	G
ATOM	15808	O	ASN	G1011	27.208	106.137	68.574	1.00	51.35	G
ATOM	15809	N	PHE	G1012	28.581	105.459	66.916	1.00	30.82	G
ATOM	15810	CA	PHE	G1012	28.387	104.069	67.276	1.00	30.82	G
ATOM	15811	CB	PHE	G1012	28.832	103.118	66.144	1.00	83.90	G
ATOM	15812	CG	PHE	G1012	30.308	102.907	66.051	1.00	83.90	G
ATOM	15813	CD1	PHE	G1012	31.076	103.653	65.171	1.00	83.90	G
ATOM	15814	CD2	PHE	G1012	30.931	101.937	66.830	1.00	83.90	G
ATOM	15815	CE1	PHE	G1012	32.449	103.435	65.067	1.00	83.90	G
ATOM	15816	CE2	PHE	G1012	32.297	101.712	66.737	1.00	83.90	G
ATOM	15817	CZ	PHE	G1012	33.060	102.460	65.854	1.00	83.90	G
ATOM	15818	C	PHE	G1012	29.030	103.703	68.600	1.00	30.82	G
ATOM	15819	O	PHE	G1012	28.472	102.904	69.364	1.00	30.82	G
ATOM	15820	N	GLU	G1013	30.165	104.312	68.918	1.00	19.23	G
ATOM	15821	CA	GLU	G1013	30.805	103.951	70.170	1.00	19.23	G
ATOM	15822	CB	GLU	G1013	31.945	104.902	70.523	1.00	100.07	G
ATOM	15823	CG	GLU	G1013	32.981	104.239	71.434	1.00	100.07	G
ATOM	15824	CD	GLU	G1013	33.979	105.221	72.032	1.00	100.07	G
ATOM	15825	OE1	GLU	G1013	33.603	105.950	72.980	1.00	100.07	G
ATOM	15826	OE2	GLU	G1013	35.138	105.269	71.552	1.00	100.07	G
ATOM	15827	C	GLU	G1013	29.790	103.928	71.303	1.00	19.23	G
ATOM	15828	O	GLU	G1013	29.998	103.259	72.307	1.00	19.23	G
ATOM	15829	N	GLU	G1014	28.682	104.639	71.136	1.00	57.43	G
ATOM	15830	CA	GLU	G1014	27.668	104.674	72.177	1.00	57.43	G
ATOM	15831	CB	GLU	G1014	27.414	106.110	72.616	1.00	99.43	G
ATOM	15832	CG	GLU	G1014	28.679	106.924	72.770	1.00	99.43	G
ATOM	15833	CD	GLU	G1014	28.407	108.312	73.290	1.00	99.43	G
ATOM	15834	OE1	GLU	G1014	27.410	108.931	72.857	1.00	99.43	G
ATOM	15835	OE2	GLU	G1014	29.200	108.785	74.126	1.00	99.43	G
ATOM	15836	C	GLU	G1014	26.376	104.054	71.696	1.00	57.43	G
ATOM	15837	O	GLU	G1014	25.816	103.206	72.372	1.00	57.43	G
ATOM	15838	N	ASN	G1015	25.888	104.493	70.543	1.00	74.08	G

ATOM	15839	CA	ASN G1015	24.665	103.926	69.985	1.00	74.08	G
ATOM	15840	CB	ASN G1015	23.743	105.018	69.456	1.00	87.88	G
ATOM	15841	CG	ASN G1015	23.795	106.260	70.290	1.00	87.88	G
ATOM	15842	OD1	ASN G1015	23.993	106.189	71.502	1.00	87.88	G
ATOM	15843	ND2	ASN G1015	23.608	107.414	69.654	1.00	87.88	G
ATOM	15844	C	ASN G1015	25.113	103.053	68.827	1.00	74.08	G
ATOM	15845	O	ASN G1015	25.681	103.565	67.870	1.00	74.08	G
ATOM	15846	N	TYR G1016	24.847	101.750	68.912	1.00	31.52	G
ATOM	15847	CA	TYR G1016	25.236	100.771	67.891	1.00	31.52	G
ATOM	15848	CB	TYR G1016	25.433	101.441	66.529	1.00	23.52	G
ATOM	15849	CG	TYR G1016	24.223	102.177	66.003	1.00	23.52	G
ATOM	15850	CD1	TYR G1016	23.125	102.433	66.818	1.00	23.52	G
ATOM	15851	CE1	TYR G1016	22.003	103.103	66.327	1.00	23.52	G
ATOM	15852	CD2	TYR G1016	24.173	102.608	64.683	1.00	23.52	G
ATOM	15853	CE2	TYR G1016	23.063	103.269	64.179	1.00	23.52	G
ATOM	15854	CZ	TYR G1016	21.976	103.518	65.000	1.00	23.52	G
ATOM	15855	OH	TYR G1016	20.863	104.173	64.503	1.00	23.52	G
ATOM	15856	C	TYR G1016	26.548	100.093	68.293	1.00	31.52	G
ATOM	15857	O	TYR G1016	27.556	100.254	67.606	1.00	31.52	G
ATOM	15858	N	PRO G1017	26.554	99.332	69.408	1.00	48.22	G
ATOM	15859	CD	PRO G1017	25.356	98.835	70.111	1.00	99.89	G
ATOM	15860	CA	PRO G1017	27.760	98.634	69.880	1.00	48.22	G
ATOM	15861	CB	PRO G1017	27.244	97.832	71.071	1.00	99.89	G
ATOM	15862	CG	PRO G1017	25.831	97.513	70.665	1.00	99.89	G
ATOM	15863	C	PRO G1017	28.266	97.746	68.735	1.00	48.22	G
ATOM	15864	O	PRO G1017	29.338	97.988	68.177	1.00	48.22	G
ATOM	15865	N	PHE G1018	27.506	96.702	68.411	1.00	40.21	G
ATOM	15866	CA	PHE G1018	27.837	95.866	67.273	1.00	40.21	G
ATOM	15867	CB	PHE G1018	27.365	94.428	67.429	1.00	30.87	G
ATOM	15868	CG	PHE G1018	27.435	93.907	68.820	1.00	30.87	G
ATOM	15869	CD1	PHE G1018	26.489	94.276	69.760	1.00	30.87	G
ATOM	15870	CD2	PHE G1018	28.441	93.030	69.191	1.00	30.87	G
ATOM	15871	CE1	PHE G1018	26.546	93.774	71.055	1.00	30.87	G
ATOM	15872	CE2	PHE G1018	28.512	92.519	70.477	1.00	30.87	G
ATOM	15873	CZ	PHE G1018	27.565	92.889	71.414	1.00	30.87	G
ATOM	15874	C	PHE G1018	26.887	96.562	66.328	1.00	40.21	G
ATOM	15875	O	PHE G1018	26.684	97.771	66.440	1.00	40.21	G
ATOM	15876	N	ALA G1019	26.286	95.827	65.404	1.00	100.07	G
ATOM	15877	CA	ALA G1019	25.342	96.447	64.478	1.00	100.07	G
ATOM	15878	CB	ALA G1019	24.063	96.871	65.237	1.00	49.74	G
ATOM	15879	C	ALA G1019	25.917	97.653	63.720	1.00	100.07	G
ATOM	15880	O	ALA G1019	25.164	98.505	63.231	1.00	100.07	G
ATOM	15881	N	PRO G1020	27.252	97.748	63.611	1.00	48.11	G
ATOM	15882	CD	PRO G1020	28.352	97.111	64.340	1.00	64.34	G
ATOM	15883	CA	PRO G1020	27.798	98.884	62.892	1.00	48.11	G
ATOM	15884	CB	PRO G1020	28.628	99.559	63.958	1.00	64.34	G
ATOM	15885	CG	PRO G1020	29.118	98.335	64.838	1.00	64.34	G
ATOM	15886	C	PRO G1020	28.666	98.222	61.851	1.00	48.11	G
ATOM	15887	O	PRO G1020	29.502	98.871	61.232	1.00	48.11	G
ATOM	15888	N	LEU G1021	28.472	96.905	61.742	1.00	28.79	G
ATOM	15889	CA	LEU G1021	29.150	96.027	60.812	1.00	28.79	G
ATOM	15890	CB	LEU G1021	28.198	95.688	59.693	1.00	48.08	G
ATOM	15891	CG	LEU G1021	26.833	95.531	60.362	1.00	48.08	G
ATOM	15892	CD1	LEU G1021	25.774	95.376	59.305	1.00	48.08	G
ATOM	15893	CD2	LEU G1021	26.844	94.337	61.335	1.00	48.08	G
ATOM	15894	C	LEU G1021	30.398	96.664	60.275	1.00	28.79	G
ATOM	15895	O	LEU G1021	31.485	96.133	60.472	1.00	28.79	G
ATOM	15896	N	ALA G1022	30.264	97.795	59.590	1.00	39.56	G
ATOM	15897	CA	ALA G1022	31.438	98.492	59.096	1.00	39.56	G
ATOM	15898	CB	ALA G1022	31.044	99.728	58.261	1.00	5.07	G
ATOM	15899	C	ALA G1022	32.241	98.914	60.325	1.00	39.56	G
ATOM	15900	O	ALA G1022	32.987	99.873	60.258	1.00	39.56	G
ATOM	15901	N	VAL G1023	32.085	98.198	61.442	1.00	32.21	G
ATOM	15902	CA	VAL G1023	32.814	98.505	62.670	1.00	32.21	G
ATOM	15903	CB	VAL G1023	31.943	99.213	63.682	1.00	13.83	G
ATOM	15904	CG1	VAL G1023	32.649	99.262	65.025	1.00	13.83	G
ATOM	15905	CG2	VAL G1023	31.641	100.596	63.200	1.00	13.83	G
ATOM	15906	C	VAL G1023	33.504	97.369	63.418	1.00	32.21	G
ATOM	15907	O	VAL G1023	34.717	97.412	63.538	1.00	32.21	G
ATOM	15908	N	MET G1024	32.764	96.394	63.961	1.00	21.83	G
ATOM	15909	CA	MET G1024	33.400	95.278	64.693	1.00	21.83	G
ATOM	15910	CB	MET G1024	32.548	94.013	64.659	1.00	99.86	G
ATOM	15911	CG	MET G1024	31.085	94.257	64.504	1.00	99.86	G
ATOM	15912	SD	MET G1024	30.585	95.555	65.592	1.00	99.86	G
ATOM	15913	CE	MET G1024	31.225	94.952	67.155	1.00	99.86	G
ATOM	15914	C	MET G1024	34.699	94.970	63.952	1.00	21.83	G
ATOM	15915	O	MET G1024	35.757	94.702	64.555	1.00	21.83	G
ATOM	15916	N	ALA G1025	34.579	94.985	62.624	1.00	20.04	G
ATOM	15917	CA	ALA G1025	35.705	94.771	61.756	1.00	20.04	G
ATOM	15918	CB	ALA G1025	35.296	95.002	60.320	1.00	11.81	G
ATOM	15919	C	ALA G1025	36.632	95.874	62.231	1.00	20.04	G
ATOM	15920	O	ALA G1025	37.493	95.651	63.088	1.00	20.04	G
ATOM	15921	N	ALA G1026	36.401	97.076	61.703	1.00	19.14	G
ATOM	15922	CA	ALA G1026	37.177	98.274	62.046	1.00	19.14	G

ATOM	15923	CB	ALA	G1026	36.339	99.514	61.777	1.00	65.03	G
ATOM	15924	C	ALA	G1026	37.678	98.301	63.490	1.00	19.14	G
ATOM	15925	O	ALA	G1026	38.877	98.334	63.737	1.00	19.14	G
ATOM	15926	N	SER	G1027	36.754	98.305	64.437	1.00	48.99	G
ATOM	15927	CA	SER	G1027	37.101	98.315	65.851	1.00	48.99	G
ATOM	15928	CB	SER	G1027	35.852	98.000	66.671	1.00	100.07	G
ATOM	15929	OG	SER	G1027	35.212	96.830	66.183	1.00	100.07	G
ATOM	15930	C	SER	G1027	38.205	97.293	66.163	1.00	48.99	G
ATOM	15931	O	SER	G1027	38.736	97.237	67.277	1.00	48.99	G
ATOM	15932	N	GLY	G1028	38.548	96.487	65.168	1.00	18.82	G
ATOM	15933	CA	GLY	G1028	39.569	95.486	65.359	1.00	18.82	G
ATOM	15934	C	GLY	G1028	39.142	94.220	64.658	1.00	18.82	G
ATOM	15935	O	GLY	G1028	38.309	93.468	65.168	1.00	18.82	G
ATOM	15936	N	ALA	G1029	39.711	94.003	63.474	1.00	26.00	G
ATOM	15937	CA	ALA	G1029	39.420	92.835	62.643	1.00	26.00	G
ATOM	15938	CB	ALA	G1029	37.917	92.568	62.619	1.00	100.07	G
ATOM	15939	C	ALA	G1029	39.939	93.033	61.211	1.00	26.00	G
ATOM	15940	O	ALA	G1029	41.006	92.528	60.850	1.00	26.00	G
ATOM	15941	N	ALA	G1030	39.178	93.771	60.407	1.00	21.88	G
ATOM	15942	CA	ALA	G1030	39.565	94.026	59.033	1.00	21.88	G
ATOM	15943	CB	ALA	G1030	39.231	92.793	58.194	1.00	5.07	G
ATOM	15944	C	ALA	G1030	38.962	95.321	58.409	1.00	21.88	G
ATOM	15945	O	ALA	G1030	38.502	95.326	57.254	1.00	21.88	G
ATOM	15946	N	GLY	G1031	39.006	96.416	59.174	1.00	38.70	G
ATOM	15947	CA	GLY	G1031	38.482	97.698	58.716	1.00	38.70	G
ATOM	15948	C	GLY	G1031	39.555	98.728	58.388	1.00	38.70	G
ATOM	15949	O	GLY	G1031	40.404	98.443	57.559	1.00	38.70	G
ATOM	15950	N	ASN	G1032	39.501	99.902	59.032	1.00	39.45	G
ATOM	15951	CA	ASN	G1032	40.433	101.045	58.869	1.00	39.45	G
ATOM	15952	CB	ASN	G1032	41.222	100.955	57.546	1.00	58.33	G
ATOM	15953	CG	ASN	G1032	40.573	101.731	56.385	1.00	58.33	G
ATOM	15954	OD1	ASN	G1032	40.478	102.953	56.426	1.00	58.33	G
ATOM	15955	ND2	ASN	G1032	40.153	101.016	55.339	1.00	58.33	G
ATOM	15956	C	ASN	G1032	39.613	102.341	58.892	1.00	39.45	G
ATOM	15957	O	ASN	G1032	38.833	102.579	57.971	1.00	39.45	G
ATOM	15958	N	PRO	G1033	39.766	103.192	59.940	1.00	70.33	G
ATOM	15959	CD	PRO	G1033	40.675	103.006	61.077	1.00	19.66	G
ATOM	15960	CA	PRO	G1033	39.041	104.467	60.100	1.00	70.33	G
ATOM	15961	CB	PRO	G1033	39.534	104.995	61.442	1.00	19.66	G
ATOM	15962	CG	PRO	G1033	40.869	104.437	61.542	1.00	19.66	G
ATOM	15963	C	PRO	G1033	39.193	105.499	59.005	1.00	70.33	G
ATOM	15964	O	PRO	G1033	38.264	106.260	58.754	1.00	70.33	G
ATOM	15965	N	GLN	G1034	40.363	105.552	58.377	1.00	55.87	G
ATOM	15966	CA	GLN	G1034	40.563	106.481	57.275	1.00	55.87	G
ATOM	15967	CB	GLN	G1034	41.847	106.155	56.540	1.00	99.58	G
ATOM	15968	CG	GLN	G1034	43.027	105.991	57.436	1.00	99.58	G
ATOM	15969	CD	GLN	G1034	44.202	105.435	56.684	1.00	99.58	G
ATOM	15970	OE1	GLN	G1034	44.547	105.924	55.607	1.00	99.58	G
ATOM	15971	NE2	GLN	G1034	44.829	104.404	57.240	1.00	99.58	G
ATOM	15972	C	GLN	G1034	39.387	106.224	56.336	1.00	55.87	G
ATOM	15973	O	GLN	G1034	38.699	107.148	55.894	1.00	55.87	G
ATOM	15974	N	ALA	G1035	39.168	104.950	56.033	1.00	39.34	G
ATOM	15975	CA	ALA	G1035	38.067	104.562	55.177	1.00	39.34	G
ATOM	15976	CB	ALA	G1035	37.945	103.052	55.127	1.00	74.13	G
ATOM	15977	C	ALA	G1035	36.797	105.182	55.752	1.00	39.34	G
ATOM	15978	O	ALA	G1035	36.286	106.138	55.180	1.00	39.34	G
ATOM	15979	N	ILE	G1036	36.312	104.663	56.886	1.00	24.89	G
ATOM	15980	CA	ILE	G1036	35.095	105.176	57.530	1.00	24.89	G
ATOM	15981	CB	ILE	G1036	34.932	104.625	58.966	1.00	18.32	G
ATOM	15982	CG2	ILE	G1036	33.647	105.118	59.556	1.00	18.32	G
ATOM	15983	CG1	ILE	G1036	34.815	103.107	58.964	1.00	18.32	G
ATOM	15984	CD	ILE	G1036	36.084	102.410	58.683	1.00	18.32	G
ATOM	15985	C	ILE	G1036	35.060	106.715	57.592	1.00	24.89	G
ATOM	15986	O	ILE	G1036	34.034	107.340	57.269	1.00	24.89	G
ATOM	15987	N	ARG	G1037	36.179	107.314	58.011	1.00	42.24	G
ATOM	15988	CA	ARG	G1037	36.328	108.776	58.089	1.00	42.24	G
ATOM	15989	CB	ARG	G1037	37.740	109.148	58.567	1.00	100.07	G
ATOM	15990	CG	ARG	G1037	38.227	110.531	58.112	1.00	100.07	G
ATOM	15991	CD	ARG	G1037	39.709	110.730	58.357	1.00	100.07	G
ATOM	15992	NE	ARG	G1037	40.302	111.669	57.405	1.00	100.07	G
ATOM	15993	CZ	ARG	G1037	41.591	112.008	57.391	1.00	100.07	G
ATOM	15994	NH1	ARG	G1037	42.426	111.487	58.282	1.00	100.07	G
ATOM	15995	NH2	ARG	G1037	42.053	112.865	56.487	1.00	100.07	G
ATOM	15996	C	ARG	G1037	36.115	109.347	56.694	1.00	42.24	G
ATOM	15997	O	ARG	G1037	36.341	110.533	56.443	1.00	42.24	G
ATOM	15998	N	GLN	G1038	35.692	108.471	55.791	1.00	20.38	G
ATOM	15999	CA	GLN	G1038	35.439	108.809	54.409	1.00	20.38	G
ATOM	16000	CB	GLN	G1038	36.716	108.553	53.591	1.00	100.07	G
ATOM	16001	CG	GLN	G1038	36.659	107.425	52.584	1.00	100.07	G
ATOM	16002	CD	GLN	G1038	37.971	107.252	51.831	1.00	100.07	G
ATOM	16003	OE1	GLN	G1038	38.454	108.172	51.168	1.00	100.07	G
ATOM	16004	NE2	GLN	G1038	38.552	106.064	51.933	1.00	100.07	G
ATOM	16005	C	GLN	G1038	34.262	107.949	53.942	1.00	20.38	G
ATOM	16006	O	GLN	G1038	33.441	108.367	53.124	1.00	20.38	G

ATOM	16007	N	LEU	G1039	34.172	106.747	54.499	1.00	37.90	G
ATOM	16008	CA	LEU	G1039	33.092	105.834	54.165	1.00	37.90	G
ATOM	16009	CB	LEU	G1039	33.329	104.457	54.802	1.00	33.12	G
ATOM	16010	CG	LEU	G1039	33.478	103.330	53.774	1.00	33.12	G
ATOM	16011	CD1	LEU	G1039	33.916	102.022	54.422	1.00	33.12	G
ATOM	16012	CD2	LEU	G1039	32.153	103.161	53.080	1.00	33.12	G
ATOM	16013	C	LEU	G1039	31.801	106.448	54.688	1.00	37.90	G
ATOM	16014	O	LEU	G1039	30.810	106.518	53.965	1.00	37.90	G
ATOM	16015	N	CYS	G1040	31.822	106.918	55.934	1.00	100.07	G
ATOM	16016	CA	CYS	G1040	30.639	107.534	56.540	1.00	100.07	G
ATOM	16017	CB	CYS	G1040	30.544	107.153	58.013	1.00	57.75	G
ATOM	16018	SG	CYS	G1040	30.616	105.388	58.317	1.00	57.75	G
ATOM	16019	C	CYS	G1040	30.659	109.056	56.407	1.00	100.07	G
ATOM	16020	O	CYS	G1040	30.244	109.602	55.385	1.00	100.07	G
ATOM	16021	N	GLY	G1041	31.112	109.741	57.452	1.00	33.05	G
ATOM	16022	CA	GLY	G1041	31.185	111.189	57.394	1.00	33.05	G
ATOM	16023	C	GLY	G1041	32.155	111.521	56.283	1.00	33.05	G
ATOM	16024	O	GLY	G1041	32.978	110.677	55.914	1.00	33.05	G
ATOM	16025	N	MET	G1042	32.087	112.745	55.771	1.00	19.67	G
ATOM	16026	CA	MET	G1042	32.929	113.176	54.652	1.00	19.67	G
ATOM	16027	CB	MET	G1042	32.460	114.571	54.203	1.00	29.12	G
ATOM	16028	CG	MET	G1042	33.565	115.649	54.105	1.00	29.12	G
ATOM	16029	SD	MET	G1042	34.228	116.401	55.664	1.00	29.12	G
ATOM	16030	CE	MET	G1042	33.334	117.960	55.672	1.00	29.12	G
ATOM	16031	C	MET	G1042	34.466	113.176	54.717	1.00	19.67	G
ATOM	16032	O	MET	G1042	35.063	113.676	55.670	1.00	19.67	G
ATOM	16033	N	ARG	G1043	35.100	112.580	53.707	1.00	53.72	G
ATOM	16034	CA	ARG	G1043	36.561	112.640	53.571	1.00	53.72	G
ATOM	16035	CB	ARG	G1043	37.107	111.547	52.655	1.00	80.54	G
ATOM	16036	CG	ARG	G1043	36.553	111.586	51.215	1.00	80.54	G
ATOM	16037	CD	ARG	G1043	37.381	110.721	50.255	1.00	80.54	G
ATOM	16038	NE	ARG	G1043	36.770	110.562	48.933	1.00	80.54	G
ATOM	16039	CZ	ARG	G1043	37.404	110.060	47.874	1.00	80.54	G
ATOM	16040	NH1	ARG	G1043	38.666	109.673	47.977	1.00	80.54	G
ATOM	16041	NH2	ARG	G1043	36.778	109.936	46.713	1.00	80.54	G
ATOM	16042	C	ARG	G1043	36.386	113.885	52.746	1.00	53.72	G
ATOM	16043	O	ARG	G1043	35.242	114.187	52.405	1.00	53.72	G
ATOM	16044	N	GLY	G1044	37.421	114.630	52.385	1.00	61.65	G
ATOM	16045	CA	GLY	G1044	37.064	115.795	51.591	1.00	61.65	G
ATOM	16046	C	GLY	G1044	38.052	116.803	51.083	1.00	61.65	G
ATOM	16047	O	GLY	G1044	37.652	117.719	50.380	1.00	61.65	G
ATOM	16048	N	LEU	G1045	39.324	116.659	51.415	1.00	53.85	G
ATOM	16049	CA	LEU	G1045	40.289	117.627	50.931	1.00	53.85	G
ATOM	16050	CB	LEU	G1045	40.910	118.361	52.118	1.00	31.35	G
ATOM	16051	CG	LEU	G1045	41.210	119.843	51.879	1.00	31.35	G
ATOM	16052	CD1	LEU	G1045	40.043	120.485	51.123	1.00	31.35	G
ATOM	16053	CD2	LEU	G1045	41.458	120.543	53.221	1.00	31.35	G
ATOM	16054	C	LEU	G1045	41.366	117.001	50.051	1.00	53.85	G
ATOM	16055	O	LEU	G1045	42.457	116.677	50.509	1.00	53.85	G
ATOM	16056	N	MET	G1046	41.055	116.821	48.778	1.00	45.06	G
ATOM	16057	CA	MET	G1046	42.028	116.240	47.876	1.00	45.06	G
ATOM	16058	CB	MET	G1046	41.372	115.766	46.578	1.00	66.51	G
ATOM	16059	CG	MET	G1046	40.903	114.339	46.615	1.00	66.51	G
ATOM	16060	SD	MET	G1046	39.661	114.124	47.862	1.00	66.51	G
ATOM	16061	CE	MET	G1046	40.689	113.667	49.271	1.00	66.51	G
ATOM	16062	C	MET	G1046	43.099	117.241	47.532	1.00	45.06	G
ATOM	16063	O	MET	G1046	42.923	118.452	47.684	1.00	45.06	G
ATOM	16064	N	ALA	G1047	44.216	116.716	47.055	1.00	100.03	G
ATOM	16065	CA	ALA	G1047	45.328	117.544	46.656	1.00	100.03	G
ATOM	16066	CB	ALA	G1047	46.605	117.070	47.332	1.00	53.50	G
ATOM	16067	C	ALA	G1047	45.457	117.427	45.150	1.00	100.03	G
ATOM	16068	O	ALA	G1047	45.187	116.376	44.567	1.00	100.03	G
ATOM	16069	N	ALA	G1048	45.844	118.524	44.519	1.00	100.07	G
ATOM	16070	CA	ALA	G1048	46.047	118.542	43.083	1.00	100.07	G
ATOM	16071	CB	ALA	G1048	46.364	119.973	42.633	1.00	19.35	G
ATOM	16072	C	ALA	G1048	47.245	117.632	42.840	1.00	100.07	G
ATOM	16073	O	ALA	G1048	47.790	117.057	43.779	1.00	100.07	G
ATOM	16074	N	PRO	G1049	47.648	117.451	41.580	1.00	55.87	G
ATOM	16075	CD	PRO	G1049	46.985	117.756	40.306	1.00	30.75	G
ATOM	16076	CA	PRO	G1049	48.810	116.591	41.359	1.00	55.87	G
ATOM	16077	CB	PRO	G1049	48.784	116.360	39.858	1.00	30.75	G
ATOM	16078	CG	PRO	G1049	48.109	117.590	39.345	1.00	30.75	G
ATOM	16079	C	PRO	G1049	50.065	117.340	41.798	1.00	55.87	G
ATOM	16080	O	PRO	G1049	51.047	116.737	42.241	1.00	55.87	G
ATOM	16081	N	SER	G1050	50.008	118.666	41.684	1.00	90.84	G
ATOM	16082	CA	SER	G1050	51.122	119.544	42.050	1.00	90.84	G
ATOM	16083	CB	SER	G1050	51.060	120.835	41.228	1.00	93.57	G
ATOM	16084	OG	SER	G1050	49.903	121.593	41.549	1.00	93.57	G
ATOM	16085	C	SER	G1050	51.137	119.912	43.532	1.00	90.84	G
ATOM	16086	O	SER	G1050	51.320	121.080	43.877	1.00	90.84	G
ATOM	16087	N	GLY	G1051	50.942	118.918	44.397	1.00	68.75	G
ATOM	16088	CA	GLY	G1051	50.937	119.151	45.836	1.00	68.75	G
ATOM	16089	C	GLY	G1051	49.827	120.045	46.371	1.00	68.75	G
ATOM	16090	O	GLY	G1051	49.215	119.749	47.395	1.00	68.75	G

ATOM	16091	N	ALA	G1052	49.575	121.148	45.678	1.00	37.38	G
ATOM	16092	CA	ALA	G1052	48.552	122.099	46.076	1.00	37.38	G
ATOM	16093	CB	ALA	G1052	48.304	123.098	44.930	1.00	36.85	G
ATOM	16094	C	ALA	G1052	47.249	121.401	46.476	1.00	37.38	G
ATOM	16095	O	ALA	G1052	46.880	120.372	45.904	1.00	37.38	G
ATOM	16096	N	THR	G1053	46.567	121.963	47.472	1.00	47.47	G
ATOM	16097	CA	THR	G1053	45.294	121.424	47.956	1.00	47.47	G
ATOM	16098	CB	THR	G1053	45.148	121.581	49.483	1.00	100.07	G
ATOM	16099	OG1	THR	G1053	46.060	120.700	50.149	1.00	100.07	G
ATOM	16100	CG2	THR	G1053	43.722	121.266	49.916	1.00	100.07	G
ATOM	16101	C	THR	G1053	44.132	122.165	47.317	1.00	47.47	G
ATOM	16102	O	THR	G1053	44.203	123.376	47.079	1.00	47.47	G
ATOM	16103	N	PHE	G1054	43.054	121.444	47.046	1.00	54.78	G
ATOM	16104	CA	PHE	G1054	41.905	122.089	46.448	1.00	54.78	G
ATOM	16105	CB	PHE	G1054	41.107	121.090	45.616	1.00	38.67	G
ATOM	16106	CG	PHE	G1054	41.775	120.722	44.312	1.00	38.67	G
ATOM	16107	CD1	PHE	G1054	42.420	119.499	44.158	1.00	38.67	G
ATOM	16108	CD2	PHE	G1054	41.748	121.597	43.232	1.00	38.67	G
ATOM	16109	CE1	PHE	G1054	43.014	119.159	42.951	1.00	38.67	G
ATOM	16110	CE2	PHE	G1054	42.346	121.260	42.024	1.00	38.67	G
ATOM	16111	CZ	PHE	G1054	42.974	120.045	41.884	1.00	38.67	G
ATOM	16112	C	PHE	G1054	41.031	122.751	47.504	1.00	54.78	G
ATOM	16113	O	PHE	G1054	40.428	122.082	48.346	1.00	54.78	G
ATOM	16114	N	GLU	G1055	40.993	124.079	47.435	1.00	58.79	G
ATOM	16115	CA	GLU	G1055	40.240	124.926	48.341	1.00	58.79	G
ATOM	16116	CB	GLU	G1055	40.417	126.379	47.892	1.00	98.67	G
ATOM	16117	CG	GLU	G1055	39.668	127.417	48.708	1.00	98.67	G
ATOM	16118	CD	GLU	G1055	40.077	128.838	48.360	1.00	98.67	G
ATOM	16119	OE1	GLU	G1055	40.192	129.150	47.156	1.00	98.67	G
ATOM	16120	OE2	GLU	G1055	40.276	129.649	49.289	1.00	98.67	G
ATOM	16121	C	GLU	G1055	38.749	124.583	48.490	1.00	58.79	G
ATOM	16122	O	GLU	G1055	37.997	125.343	49.100	1.00	58.79	G
ATOM	16123	N	VAL	G1056	38.313	123.445	47.945	1.00	36.77	G
ATOM	16124	CA	VAL	G1056	36.906	123.026	48.059	1.00	36.77	G
ATOM	16125	CB	VAL	G1056	36.123	123.284	46.760	1.00	35.12	G
ATOM	16126	CG1	VAL	G1056	34.649	122.929	46.958	1.00	35.12	G
ATOM	16127	CG2	VAL	G1056	36.287	124.741	46.337	1.00	35.12	G
ATOM	16128	C	VAL	G1056	36.788	121.542	48.391	1.00	36.77	G
ATOM	16129	O	VAL	G1056	37.109	120.691	47.576	1.00	36.77	G
ATOM	16130	N	PRO	G1057	36.327	121.220	49.605	1.00	45.23	G
ATOM	16131	CD	PRO	G1057	35.995	122.170	50.679	1.00	100.07	G
ATOM	16132	CA	PRO	G1057	36.159	119.844	50.071	1.00	45.23	G
ATOM	16133	CB	PRO	G1057	35.880	120.014	51.559	1.00	100.07	G
ATOM	16134	CG	PRO	G1057	35.181	121.313	51.618	1.00	100.07	G
ATOM	16135	C	PRO	G1057	35.064	119.081	49.340	1.00	45.23	G
ATOM	16136	O	PRO	G1057	34.674	119.474	48.230	1.00	45.23	G
ATOM	16137	N	VAL	G1058	34.554	118.011	49.958	1.00	49.19	G
ATOM	16138	CA	VAL	G1058	33.544	117.197	49.287	1.00	49.19	G
ATOM	16139	CB	VAL	G1058	34.187	115.907	48.756	1.00	67.57	G
ATOM	16140	CG1	VAL	G1058	33.615	115.586	47.374	1.00	67.57	G
ATOM	16141	CG2	VAL	G1058	35.707	116.046	48.730	1.00	67.57	G
ATOM	16142	C	VAL	G1058	32.235	116.773	49.971	1.00	49.19	G
ATOM	16143	O	VAL	G1058	32.082	116.845	51.190	1.00	49.19	G
ATOM	16144	N	ALA	G1059	31.299	116.318	49.133	1.00	56.79	G
ATOM	16145	CA	ALA	G1059	29.991	115.810	49.566	1.00	56.79	G
ATOM	16146	CB	ALA	G1059	28.936	116.016	48.480	1.00	53.14	G
ATOM	16147	C	ALA	G1059	30.278	114.346	49.699	1.00	56.79	G
ATOM	16148	O	ALA	G1059	29.563	113.504	49.168	1.00	56.79	G
ATOM	16149	N	SER	G1060	31.344	114.065	50.423	1.00	44.75	G
ATOM	16150	CA	SER	G1060	31.822	112.715	50.583	1.00	44.75	G
ATOM	16151	CB	SER	G1060	33.166	112.735	51.307	1.00	100.07	G
ATOM	16152	OG	SER	G1060	34.187	113.222	50.453	1.00	100.07	G
ATOM	16153	C	SER	G1060	30.948	111.665	51.213	1.00	44.75	G
ATOM	16154	O	SER	G1060	31.382	110.525	51.330	1.00	44.75	G
ATOM	16155	N	SER	G1061	29.735	112.002	51.620	1.00	91.29	G
ATOM	16156	CA	SER	G1061	28.906	110.978	52.234	1.00	91.29	G
ATOM	16157	CB	SER	G1061	27.421	111.250	51.961	1.00	31.24	G
ATOM	16158	OG	SER	G1061	26.868	112.171	52.893	1.00	31.24	G
ATOM	16159	C	SER	G1061	29.302	109.574	51.729	1.00	91.29	G
ATOM	16160	O	SER	G1061	29.409	108.642	52.528	1.00	91.29	G
ATOM	16161	N	PHE	G1062	29.577	109.451	50.422	1.00	60.01	G
ATOM	16162	CA	PHE	G1062	29.941	108.173	49.774	1.00	60.01	G
ATOM	16163	CB	PHE	G1062	31.177	107.531	50.426	1.00	59.48	G
ATOM	16164	CG	PHE	G1062	32.367	107.356	49.481	1.00	59.48	G
ATOM	16165	CD1	PHE	G1062	32.912	108.438	48.793	1.00	59.48	G
ATOM	16166	CD2	PHE	G1062	32.977	106.117	49.330	1.00	59.48	G
ATOM	16167	CE1	PHE	G1062	34.048	108.281	47.977	1.00	59.48	G
ATOM	16168	CE2	PHE	G1062	34.107	105.961	48.518	1.00	59.48	G
ATOM	16169	CZ	PHE	G1062	34.638	107.044	47.846	1.00	59.48	G
ATOM	16170	C	PHE	G1062	28.721	107.280	49.934	1.00	60.01	G
ATOM	16171	O	PHE	G1062	28.233	106.696	48.976	1.00	60.01	G
ATOM	16172	N	ARG	G1063	28.231	107.197	51.164	1.00	63.31	G
ATOM	16173	CA	ARG	G1063	27.027	106.458	51.483	1.00	63.31	G
ATOM	16174	CB	ARG	G1063	26.768	106.528	52.997	1.00	46.23	G

ATOM	16175	CG	ARG	G1063	25.404	106.010	53.448	1.00	46.23	G
ATOM	16176	CD	ARG	G1063	24.309	107.032	53.187	1.00	46.23	G
ATOM	16177	NE	ARG	G1063	22.956	106.509	53.358	1.00	46.23	G
ATOM	16178	CZ	ARG	G1063	22.492	105.972	54.482	1.00	46.23	G
ATOM	16179	NH1	ARG	G1063	23.272	105.872	55.552	1.00	46.23	G
ATOM	16180	NH2	ARG	G1063	21.236	105.549	54.539	1.00	46.23	G
ATOM	16181	C	ARG	G1063	25.935	107.206	50.713	1.00	63.31	G
ATOM	16182	O	ARG	G1063	24.848	106.689	50.461	1.00	63.31	G
ATOM	16183	N	ALA	G1064	26.243	108.442	50.342	1.00	53.81	G
ATOM	16184	CA	ALA	G1064	25.304	109.266	49.605	1.00	53.81	G
ATOM	16185	CB	ALA	G1064	24.887	110.466	50.430	1.00	100.07	G
ATOM	16186	C	ALA	G1064	25.934	109.722	48.310	1.00	53.81	G
ATOM	16187	O	ALA	G1064	27.155	109.797	48.186	1.00	53.81	G
ATOM	16188	N	GLY	G1065	25.077	110.027	47.346	1.00	100.07	G
ATOM	16189	CA	GLY	G1065	25.538	110.451	46.045	1.00	100.07	G
ATOM	16190	C	GLY	G1065	26.752	111.350	46.040	1.00	100.07	G
ATOM	16191	O	GLY	G1065	26.602	112.568	46.109	1.00	100.07	G
ATOM	16192	N	LEU	G1066	27.951	110.768	45.976	1.00	30.93	G
ATOM	16193	CA	LEU	G1066	29.171	111.570	45.902	1.00	30.93	G
ATOM	16194	CB	LEU	G1066	30.423	110.692	46.014	1.00	17.99	G
ATOM	16195	CG	LEU	G1066	31.718	111.425	45.639	1.00	17.99	G
ATOM	16196	CD1	LEU	G1066	31.775	112.698	46.437	1.00	17.99	G
ATOM	16197	CD2	LEU	G1066	32.948	110.593	45.892	1.00	17.99	G
ATOM	16198	C	LEU	G1066	29.144	112.252	44.531	1.00	30.93	G
ATOM	16199	O	LEU	G1066	30.179	112.636	43.988	1.00	30.93	G
ATOM	16200	N	THR	G1067	27.934	112.371	43.983	1.00	51.81	G
ATOM	16201	CA	THR	G1067	27.670	112.995	42.685	1.00	51.81	G
ATOM	16202	CB	THR	G1067	26.306	113.748	42.693	1.00	100.07	G
ATOM	16203	OG1	THR	G1067	25.237	112.820	42.936	1.00	100.07	G
ATOM	16204	CG2	THR	G1067	26.075	114.456	41.360	1.00	100.07	G
ATOM	16205	C	THR	G1067	28.769	113.987	42.348	1.00	51.81	G
ATOM	16206	O	THR	G1067	29.286	114.008	41.231	1.00	51.81	G
ATOM	16207	N	VAL	G1068	29.110	114.807	43.333	1.00	57.77	G
ATOM	16208	CA	VAL	G1068	30.157	115.796	43.191	1.00	57.77	G
ATOM	16209	CB	VAL	G1068	30.963	115.937	44.503	1.00	100.07	G
ATOM	16210	CG1	VAL	G1068	31.207	117.387	44.802	1.00	100.07	G
ATOM	16211	CG2	VAL	G1068	30.221	115.286	45.654	1.00	100.07	G
ATOM	16212	C	VAL	G1068	31.115	115.356	42.093	1.00	57.77	G
ATOM	16213	O	VAL	G1068	32.024	114.560	42.335	1.00	57.77	G
ATOM	16214	N	LEU	G1069	30.887	115.842	40.876	1.00	44.05	G
ATOM	16215	CA	LEU	G1069	31.772	115.516	39.773	1.00	44.05	G
ATOM	16216	CB	LEU	G1069	31.363	116.236	38.497	1.00	86.00	G
ATOM	16217	CG	LEU	G1069	30.122	115.665	37.831	1.00	86.00	G
ATOM	16218	CD1	LEU	G1069	29.777	116.516	36.629	1.00	86.00	G
ATOM	16219	CD2	LEU	G1069	30.373	114.226	37.430	1.00	86.00	G
ATOM	16220	C	LEU	G1069	33.111	116.014	40.242	1.00	44.05	G
ATOM	16221	O	LEU	G1069	34.131	115.720	39.638	1.00	44.05	G
ATOM	16222	N	GLU	G1070	33.094	116.788	41.326	1.00	52.77	G
ATOM	16223	CA	GLU	G1070	34.321	117.258	41.931	1.00	52.77	G
ATOM	16224	CB	GLU	G1070	34.043	117.909	43.301	1.00	100.07	G
ATOM	16225	CG	GLU	G1070	33.432	119.344	43.223	1.00	100.07	G
ATOM	16226	CD	GLU	G1070	33.019	119.962	44.597	1.00	100.07	G
ATOM	16227	OE1	GLU	G1070	33.891	120.176	45.478	1.00	100.07	G
ATOM	16228	OE2	GLU	G1070	31.809	120.248	44.790	1.00	100.07	G
ATOM	16229	C	GLU	G1070	35.064	115.924	42.079	1.00	52.77	G
ATOM	16230	O	GLU	G1070	36.260	115.867	42.355	1.00	52.77	G
ATOM	16231	N	TYR	G1071	34.314	114.842	41.880	1.00	53.29	G
ATOM	16232	CA	TYR	G1071	34.838	113.481	41.892	1.00	53.29	G
ATOM	16233	CB	TYR	G1071	33.873	112.579	41.110	1.00	40.83	G
ATOM	16234	CG	TYR	G1071	34.220	111.100	41.044	1.00	40.83	G
ATOM	16235	CD1	TYR	G1071	34.974	110.573	39.995	1.00	40.83	G
ATOM	16236	CE1	TYR	G1071	35.224	109.207	39.915	1.00	40.83	G
ATOM	16237	CD2	TYR	G1071	33.737	110.220	42.007	1.00	40.83	G
ATOM	16238	CE2	TYR	G1071	33.985	108.863	41.934	1.00	40.83	G
ATOM	16239	CZ	TYR	G1071	34.722	108.361	40.894	1.00	40.83	G
ATOM	16240	OH	TYR	G1071	34.941	107.004	40.859	1.00	40.83	G
ATOM	16241	C	TYR	G1071	36.176	113.576	41.168	1.00	53.29	G
ATOM	16242	O	TYR	G1071	37.179	112.987	41.570	1.00	53.29	G
ATOM	16243	N	PHE	G1072	36.172	114.355	40.097	1.00	31.70	G
ATOM	16244	CA	PHE	G1072	37.365	114.550	39.320	1.00	31.70	G
ATOM	16245	CB	PHE	G1072	37.131	115.554	38.195	1.00	31.59	G
ATOM	16246	CG	PHE	G1072	38.379	115.921	37.467	1.00	31.59	G
ATOM	16247	CD1	PHE	G1072	38.887	115.092	36.490	1.00	31.59	G
ATOM	16248	CD2	PHE	G1072	39.103	117.047	37.837	1.00	31.59	G
ATOM	16249	CE1	PHE	G1072	40.109	115.373	35.896	1.00	31.59	G
ATOM	16250	CE2	PHE	G1072	40.321	117.337	37.253	1.00	31.59	G
ATOM	16251	CZ	PHE	G1072	40.830	116.495	36.278	1.00	31.59	G
ATOM	16252	C	PHE	G1072	38.470	115.059	40.213	1.00	31.70	G
ATOM	16253	O	PHE	G1072	39.542	114.465	40.250	1.00	31.70	G
ATOM	16254	N	ILE	G1073	38.231	116.147	40.939	1.00	20.50	G
ATOM	16255	CA	ILE	G1073	39.303	116.667	41.783	1.00	20.50	G
ATOM	16256	CB	ILE	G1073	38.845	117.787	42.817	1.00	28.53	G
ATOM	16257	CG2	ILE	G1073	39.667	119.028	42.604	1.00	28.53	G
ATOM	16258	CG1	ILE	G1073	37.385	118.195	42.646	1.00	28.53	G

ATOM	16259	CD	ILE	G1073	37.044	118.837	41.302	1.00	28.53	G
ATOM	16260	C	ILE	G1073	39.975	115.516	42.556	1.00	20.50	G
ATOM	16261	O	ILE	G1073	41.208	115.458	42.667	1.00	20.50	G
ATOM	16262	N	SER	G1074	39.177	114.583	43.063	1.00	48.50	G
ATOM	16263	CA	SER	G1074	39.747	113.474	43.815	1.00	48.50	G
ATOM	16264	CB	SER	G1074	38.648	112.735	44.576	1.00	72.43	G
ATOM	16265	OG	SER	G1074	37.802	112.045	43.684	1.00	72.43	G
ATOM	16266	C	SER	G1074	40.505	112.488	42.924	1.00	48.50	G
ATOM	16267	O	SER	G1074	41.507	111.896	43.346	1.00	48.50	G
ATOM	16268	N	SER	G1075	40.034	112.332	41.688	1.00	35.08	G
ATOM	16269	CA	SER	G1075	40.633	111.400	40.732	1.00	35.08	G
ATOM	16270	CB	SER	G1075	39.968	111.554	39.354	1.00	34.50	G
ATOM	16271	OG	SER	G1075	40.301	112.777	38.717	1.00	34.50	G
ATOM	16272	C	SER	G1075	42.147	111.497	40.573	1.00	35.08	G
ATOM	16273	O	SER	G1075	42.787	110.565	40.087	1.00	35.08	G
ATOM	16274	N	HIS	G1076	42.719	112.616	40.997	1.00	36.55	G
ATOM	16275	CA	HIS	G1076	44.153	112.832	40.863	1.00	36.55	G
ATOM	16276	CB	HIS	G1076	44.486	114.286	41.179	1.00	57.34	G
ATOM	16277	CG	HIS	G1076	43.813	115.252	40.263	1.00	57.34	G
ATOM	16278	CD2	HIS	G1076	42.499	115.488	40.030	1.00	57.34	G
ATOM	16279	ND1	HIS	G1076	44.511	116.060	39.393	1.00	57.34	G
ATOM	16280	CE1	HIS	G1076	43.654	116.751	38.662	1.00	57.34	G
ATOM	16281	NE2	HIS	G1076	42.428	116.421	39.028	1.00	57.34	G
ATOM	16282	C	HIS	G1076	44.996	111.917	41.715	1.00	36.55	G
ATOM	16283	O	HIS	G1076	45.540	110.930	41.228	1.00	36.55	G
ATOM	16284	N	GLY	G1077	45.118	112.262	42.987	1.00	47.07	G
ATOM	16285	CA	GLY	G1077	45.910	111.443	43.878	1.00	47.07	G
ATOM	16286	C	GLY	G1077	45.578	109.996	43.624	1.00	47.07	G
ATOM	16287	O	GLY	G1077	46.477	109.174	43.428	1.00	47.07	G
ATOM	16288	N	ALA	G1078	44.276	109.708	43.607	1.00	44.33	G
ATOM	16289	CA	ALA	G1078	43.766	108.365	43.378	1.00	44.33	G
ATOM	16290	CB	ALA	G1078	42.358	108.439	42.848	1.00	81.23	G
ATOM	16291	C	ALA	G1078	44.670	107.648	42.386	1.00	44.33	G
ATOM	16292	O	ALA	G1078	45.080	106.507	42.614	1.00	44.33	G
ATOM	16293	N	ARG	G1079	44.974	108.324	41.282	1.00	30.21	G
ATOM	16294	CA	ARG	G1079	45.866	107.762	40.278	1.00	30.21	G
ATOM	16295	CB	ARG	G1079	45.807	108.557	38.978	1.00	26.71	G
ATOM	16296	CG	ARG	G1079	44.652	108.157	38.068	1.00	26.71	G
ATOM	16297	CD	ARG	G1079	45.009	106.964	37.178	1.00	26.71	G
ATOM	16298	NE	ARG	G1079	44.777	107.315	35.784	1.00	26.71	G
ATOM	16299	CZ	ARG	G1079	45.529	108.166	35.108	1.00	26.71	G
ATOM	16300	NH1	ARG	G1079	46.569	108.739	35.681	1.00	26.71	G
ATOM	16301	NH2	ARG	G1079	45.213	108.479	33.875	1.00	26.71	G
ATOM	16302	C	ARG	G1079	47.251	107.856	40.858	1.00	30.21	G
ATOM	16303	O	ARG	G1079	47.695	106.941	41.527	1.00	30.21	G
ATOM	16304	N	LYS	G1080	47.914	108.982	40.623	1.00	43.68	G
ATOM	16305	CA	LYS	G1080	49.268	109.212	41.125	1.00	43.68	G
ATOM	16306	CB	LYS	G1080	49.406	110.674	41.583	1.00	99.72	G
ATOM	16307	CG	LYS	G1080	50.839	111.208	41.550	1.00	99.72	G
ATOM	16308	CD	LYS	G1080	50.942	112.633	42.092	1.00	99.72	G
ATOM	16309	CE	LYS	G1080	52.395	113.128	42.089	1.00	99.72	G
ATOM	16310	NZ	LYS	G1080	52.579	114.480	42.710	1.00	99.72	G
ATOM	16311	C	LYS	G1080	49.674	108.251	42.265	1.00	43.68	G
ATOM	16312	O	LYS	G1080	50.712	107.585	42.199	1.00	43.68	G
ATOM	16313	N	GLY	G1081	48.856	108.172	43.308	1.00	73.58	G
ATOM	16314	CA	GLY	G1081	49.183	107.275	44.401	1.00	73.58	G
ATOM	16315	C	GLY	G1081	49.310	105.844	43.908	1.00	73.58	G
ATOM	16316	O	GLY	G1081	49.663	104.936	44.664	1.00	73.58	G
ATOM	16317	N	GLY	G1082	49.019	105.657	42.625	1.00	20.82	G
ATOM	16318	CA	GLY	G1082	49.080	104.348	41.997	1.00	20.82	G
ATOM	16319	C	GLY	G1082	50.159	104.328	40.936	1.00	20.82	G
ATOM	16320	O	GLY	G1082	50.289	103.380	40.146	1.00	20.82	G
ATOM	16321	N	ALA	G1083	50.911	105.422	40.903	1.00	56.23	G
ATOM	16322	CA	ALA	G1083	52.033	105.555	40.001	1.00	56.23	G
ATOM	16323	CB	ALA	G1083	52.226	107.007	39.608	1.00	41.31	G
ATOM	16324	C	ALA	G1083	53.201	105.034	40.859	1.00	56.23	G
ATOM	16325	O	ALA	G1083	54.294	104.761	40.363	1.00	56.23	G
ATOM	16326	N	ASP	G1084	52.951	104.911	42.163	1.00	49.26	G
ATOM	16327	CA	ASP	G1084	53.929	104.345	43.086	1.00	49.26	G
ATOM	16328	CB	ASP	G1084	53.510	104.542	44.548	1.00	99.92	G
ATOM	16329	CG	ASP	G1084	54.124	105.771	45.178	1.00	99.92	G
ATOM	16330	OD1	ASP	G1084	55.339	105.990	44.995	1.00	99.92	G
ATOM	16331	OD2	ASP	G1084	53.393	106.508	45.875	1.00	99.92	G
ATOM	16332	C	ASP	G1084	53.811	102.864	42.750	1.00	49.26	G
ATOM	16333	O	ASP	G1084	54.794	102.124	42.732	1.00	49.26	G
ATOM	16334	N	THR	G1085	52.572	102.452	42.486	1.00	93.32	G
ATOM	16335	CA	THR	G1085	52.234	101.081	42.118	1.00	93.32	G
ATOM	16336	CB	THR	G1085	50.767	101.017	41.631	1.00	71.01	G
ATOM	16337	OG1	THR	G1085	49.894	101.317	42.728	1.00	71.01	G
ATOM	16338	CG2	THR	G1085	50.429	99.648	41.075	1.00	71.01	G
ATOM	16339	C	THR	G1085	53.179	100.589	41.019	1.00	93.32	G
ATOM	16340	O	THR	G1085	53.247	99.397	40.723	1.00	93.32	G
ATOM	16341	N	ALA	G1086	53.905	101.522	40.412	1.00	100.07	G
ATOM	16342	CA	ALA	G1086	54.872	101.184	39.378	1.00	100.07	G

ATOM	16343	CB	ALA	G1086	55.547	102.450	38.846	1.00	80.76	G
ATOM	16344	C	ALA	G1086	55.900	100.296	40.057	1.00	100.07	G
ATOM	16345	O	ALA	G1086	56.518	99.441	39.425	1.00	100.07	G
ATOM	16346	N	LEU	G1087	56.067	100.515	41.358	1.00	86.97	G
ATOM	16347	CA	LEU	G1087	57.003	99.756	42.172	1.00	86.97	G
ATOM	16348	CB	LEU	G1087	57.264	100.492	43.480	1.00	84.06	G
ATOM	16349	CG	LEU	G1087	58.265	99.852	44.440	1.00	84.06	G
ATOM	16350	CD1	LEU	G1087	59.645	99.895	43.834	1.00	84.06	G
ATOM	16351	CD2	LEU	G1087	58.251	100.594	45.775	1.00	84.06	G
ATOM	16352	C	LEU	G1087	56.485	98.345	42.471	1.00	86.97	G
ATOM	16353	O	LEU	G1087	56.336	97.958	43.628	1.00	86.97	G
ATOM	16354	N	ARG	G1088	56.193	97.591	41.414	1.00	99.83	G
ATOM	16355	CA	ARG	G1088	55.729	96.212	41.532	1.00	99.83	G
ATOM	16356	CB	ARG	G1088	54.553	95.942	40.591	1.00	100.07	G
ATOM	16357	CG	ARG	G1088	54.402	94.462	40.249	1.00	100.07	G
ATOM	16358	CD	ARG	G1088	53.293	94.194	39.250	1.00	100.07	G
ATOM	16359	NE	ARG	G1088	53.239	92.777	38.890	1.00	100.07	G
ATOM	16360	CZ	ARG	G1088	52.197	92.187	38.306	1.00	100.07	G
ATOM	16361	NH1	ARG	G1088	51.108	92.887	38.012	1.00	100.07	G
ATOM	16362	NH2	ARG	G1088	52.241	90.892	38.015	1.00	100.07	G
ATOM	16363	C	ARG	G1088	56.897	95.327	41.123	1.00	99.83	G
ATOM	16364	O	ARG	G1088	57.164	94.300	41.750	1.00	99.83	G
ATOM	16365	N	THR	G1089	57.578	95.735	40.052	1.00	47.42	G
ATOM	16366	CA	THR	G1089	58.729	95.007	39.540	1.00	47.42	G
ATOM	16367	CB	THR	G1089	58.886	95.212	38.020	1.00	100.07	G
ATOM	16368	OG1	THR	G1089	58.031	94.290	37.329	1.00	100.07	G
ATOM	16369	CG2	THR	G1089	60.332	94.993	37.586	1.00	100.07	G
ATOM	16370	C	THR	G1089	59.979	95.492	40.263	1.00	47.42	G
ATOM	16371	O	THR	G1089	60.905	94.718	40.533	1.00	47.42	G
ATOM	16372	N	ALA	G1090	60.005	96.777	40.580	1.00	100.07	G
ATOM	16373	CA	ALA	G1090	61.137	97.317	41.305	1.00	100.07	G
ATOM	16374	CB	ALA	G1090	61.026	98.838	41.383	1.00	100.07	G
ATOM	16375	C	ALA	G1090	61.176	96.675	42.716	1.00	100.07	G
ATOM	16376	O	ALA	G1090	60.951	97.328	43.749	1.00	100.07	G
ATOM	16377	N	ASP	G1091	61.443	95.369	42.717	1.00	53.59	G
ATOM	16378	CA	ASP	G1091	61.560	94.536	43.913	1.00	53.59	G
ATOM	16379	CB	ASP	G1091	60.204	93.931	44.289	1.00	100.07	G
ATOM	16380	CG	ASP	G1091	59.757	92.837	43.327	1.00	100.07	G
ATOM	16381	OD1	ASP	G1091	59.722	93.080	42.101	1.00	100.07	G
ATOM	16382	OD2	ASP	G1091	59.431	91.731	43.805	1.00	100.07	G
ATOM	16383	C	ASP	G1091	62.490	93.453	43.399	1.00	53.59	G
ATOM	16384	O	ASP	G1091	63.373					

ATOM	16427	NE	ARG	G1097	68.074	91.432	41.234	1.00	30.60	G
ATOM	16428	CZ	ARG	G1097	67.467	90.257	41.381	1.00	30.60	G
ATOM	16429	NH1	ARG	G1097	68.095	89.239	41.949	1.00	30.60	G
ATOM	16430	NH2	ARG	G1097	66.228	90.093	40.944	1.00	30.60	G
ATOM	16431	C	ARG	G1097	70.388	92.219	46.181	1.00	41.74	G
ATOM	16432	O	ARG	G1097	71.259	91.552	46.750	1.00	41.74	G
ATOM	16433	N	LYS	G1098	70.437	93.541	46.077	1.00	42.11	G
ATOM	16434	CA	LYS	G1098	71.577	94.290	46.587	1.00	42.11	G
ATOM	16435	CB	LYS	G1098	71.287	95.794	46.517	1.00	64.01	G
ATOM	16436	CG	LYS	G1098	70.912	96.233	45.104	1.00	64.01	G
ATOM	16437	CD	LYS	G1098	71.387	97.629	44.751	1.00	64.01	G
ATOM	16438	CE	LYS	G1098	71.324	97.817	43.238	1.00	64.01	G
ATOM	16439	NZ	LYS	G1098	71.881	99.118	42.752	1.00	64.01	G
ATOM	16440	C	LYS	G1098	71.990	93.866	48.000	1.00	42.11	G
ATOM	16441	O	LYS	G1098	73.178	93.832	48.317	1.00	42.11	G
ATOM	16442	N	LEU	G1099	71.029	93.514	48.844	1.00	27.56	G
ATOM	16443	CA	LEU	G1099	71.385	93.095	50.187	1.00	27.56	G
ATOM	16444	CB	LEU	G1099	70.205	93.224	51.146	1.00	19.19	G
ATOM	16445	CG	LEU	G1099	69.967	94.623	51.696	1.00	19.19	G
ATOM	16446	CD1	LEU	G1099	69.308	95.475	50.634	1.00	19.19	G
ATOM	16447	CD2	LEU	G1099	69.098	94.539	52.928	1.00	19.19	G
ATOM	16448	C	LEU	G1099	71.906	91.678	50.254	1.00	27.56	G
ATOM	16449	O	LEU	G1099	72.923	91.427	50.896	1.00	27.56	G
ATOM	16450	N	VAL	G1100	71.217	90.748	49.603	1.00	50.00	G
ATOM	16451	CA	VAL	G1100	71.642	89.356	49.656	1.00	50.00	G
ATOM	16452	CB	VAL	G1100	70.719	88.428	48.849	1.00	23.71	G
ATOM	16453	CG1	VAL	G1100	70.939	86.991	49.293	1.00	23.71	G
ATOM	16454	CG2	VAL	G1100	69.277	88.826	49.024	1.00	23.71	G
ATOM	16455	C	VAL	G1100	73.056	89.170	49.132	1.00	50.00	G
ATOM	16456	O	VAL	G1100	73.817	88.355	49.674	1.00	50.00	G
ATOM	16457	N	ASP	G1101	73.392	89.918	48.076	1.00	90.08	G
ATOM	16458	CA	ASP	G1101	74.715	89.856	47.456	1.00	90.08	G
ATOM	16459	CB	ASP	G1101	74.790	90.774	46.235	1.00	70.60	G
ATOM	16460	CG	ASP	G1101	74.333	90.090	44.954	1.00	70.60	G
ATOM	16461	OD1	ASP	G1101	74.641	88.888	44.775	1.00	70.60	G
ATOM	16462	OD2	ASP	G1101	73.684	90.761	44.116	1.00	70.60	G
ATOM	16463	C	ASP	G1101	75.794	90.261	48.447	1.00	90.08	G
ATOM	16464	O	ASP	G1101	76.888	89.698	48.454	1.00	90.08	G
ATOM	16465	N	VAL	G1102	75.479	91.258	49.269	1.00	37.65	G
ATOM	16466	CA	VAL	G1102	76.386	91.753	50.302	1.00	37.65	G
ATOM	16467	CB	VAL	G1102	76.268	93.275	50.477	1.00	32.78	G
ATOM	16468	CG1	VAL	G1102	77.236	93.745	51.511	1.00	32.78	G
ATOM	16469	CG2	VAL	G1102	76.509	93.977	49.175	1.00	32.78	G
ATOM	16470	C	VAL	G1102	75.850	91.151	51.577	1.00	37.65	G
ATOM	16471	O	VAL	G1102	75.069	91.812	52.245	1.00	37.65	G
ATOM	16472	N	ALA	G1103	76.238	89.919	51.907	1.00	19.95	G
ATOM	16473	CA	ALA	G1103	75.753	89.236	53.127	1.00	19.95	G
ATOM	16474	CB	ALA	G1103	74.347	89.710	53.502	1.00	5.07	G
ATOM	16475	C	ALA	G1103	75.725	87.723	52.933	1.00	19.95	G
ATOM	16476	O	ALA	G1103	75.953	86.963	53.892	1.00	19.95	G
ATOM	16477	N	HIS	G1104	75.411	87.308	51.697	1.00	33.27	G
ATOM	16478	CA	HIS	G1104	75.359	85.902	51.293	1.00	33.27	G
ATOM	16479	CB	HIS	G1104	76.207	85.700	50.035	1.00	99.06	G
ATOM	16480	CG	HIS	G1104	76.412	84.263	49.668	1.00	99.06	G
ATOM	16481	CD2	HIS	G1104	76.629	83.665	48.475	1.00	99.06	G
ATOM	16482	ND1	HIS	G1104	76.390	83.246	50.605	1.00	99.06	G
ATOM	16483	CE1	HIS	G1104	76.577	82.088	50.001	1.00	99.06	G
ATOM	16484	NE2	HIS	G1104	76.726	82.310	48.706	1.00	99.06	G
ATOM	16485	C	HIS	G1104	75.913	84.995	52.389	1.00	33.27	G
ATOM	16486	O	HIS	G1104	75.187	84.238	53.032	1.00	33.27	G
ATOM	16487	N	GLU	G1105	77.227	85.120	52.572	1.00	33.95	G
ATOM	16488	CA	GLU	G1105	78.044	84.359	53.511	1.00	33.95	G
ATOM	16489	CB	GLU	G1105	79.492	84.738	53.298	1.00	61.18	G
ATOM	16490	CG	GLU	G1105	79.756	86.201	53.453	1.00	61.18	G
ATOM	16491	CD	GLU	G1105	80.925	86.639	52.608	1.00	61.18	G
ATOM	16492	OE1	GLU	G1105	81.857	85.824	52.433	1.00	61.18	G
ATOM	16493	OE2	GLU	G1105	80.919	87.792	52.119	1.00	61.18	G
ATOM	16494	C	GLU	G1105	77.765	84.389	55.000	1.00	33.95	G
ATOM	16495	O	GLU	G1105	77.658	83.333	55.609	1.00	33.95	G
ATOM	16496	N	ILE	G1106	77.675	85.576	55.599	1.00	37.01	G
ATOM	16497	CA	ILE	G1106	77.442	85.675	57.045	1.00	37.01	G
ATOM	16498	CB	ILE	G1106	76.808	87.012	57.458	1.00	9.16	G
ATOM	16499	CG2	ILE	G1106	76.363	86.939	58.890	1.00	9.16	G
ATOM	16500	CG1	ILE	G1106	77.794	88.155	57.262	1.00	9.16	G
ATOM	16501	CD	ILE	G1106	78.118	88.385	55.822	1.00	9.16	G
ATOM	16502	C	ILE	G1106	76.531	84.581	57.550	1.00	37.01	G
ATOM	16503	O	ILE	G1106	75.422	84.428	57.055	1.00	37.01	G
ATOM	16504	N	VAL	G1107	76.998	83.832	58.544	1.00	34.39	G
ATOM	16505	CA	VAL	G1107	76.225	82.734	59.120	1.00	34.39	G
ATOM	16506	CB	VAL	G1107	76.448	81.418	58.322	1.00	10.86	G
ATOM	16507	CG1	VAL	G1107	75.886	80.234	59.079	1.00	10.86	G
ATOM	16508	CG2	VAL	G1107	75.808	81.511	56.951	1.00	10.86	G
ATOM	16509	C	VAL	G1107	76.630	82.481	60.571	1.00	34.39	G
ATOM	16510	O	VAL	G1107	77.575	83.078	61.088	1.00	34.39	G

ATOM	16511	N	VAL	G1108	75.883	81.616	61.241	1.00	74.13	G
ATOM	16512	CA	VAL	G1108	76.202	81.253	62.603	1.00	74.13	G
ATOM	16513	CB	VAL	G1108	74.998	80.588	63.307	1.00	94.80	G
ATOM	16514	CG1	VAL	G1108	75.430	80.009	64.642	1.00	94.80	G
ATOM	16515	CG2	VAL	G1108	73.877	81.607	63.503	1.00	94.80	G
ATOM	16516	C	VAL	G1108	77.326	80.243	62.446	1.00	74.13	G
ATOM	16517	O	VAL	G1108	77.209	79.280	61.686	1.00	74.13	G
ATOM	16518	N	ALA	G1109	78.428	80.484	63.139	1.00	80.78	G
ATOM	16519	CA	ALA	G1109	79.571	79.588	63.079	1.00	80.78	G
ATOM	16520	CB	ALA	G1109	80.559	80.078	62.031	1.00	100.07	G
ATOM	16521	C	ALA	G1109	80.225	79.542	64.458	1.00	80.78	G
ATOM	16522	O	ALA	G1109	80.878	80.505	64.880	1.00	80.78	G
ATOM	16523	N	ALA	G1110	80.036	78.421	65.154	1.00	75.91	G
ATOM	16524	CA	ALA	G1110	80.580	78.219	66.497	1.00	75.91	G
ATOM	16525	CB	ALA	G1110	81.997	78.799	66.604	1.00	100.07	G
ATOM	16526	C	ALA	G1110	79.674	78.871	67.530	1.00	75.91	G
ATOM	16527	O	ALA	G1110	78.789	79.653	67.189	1.00	75.91	G
ATOM	16528	N	ALA	G1111	79.891	78.543	68.797	1.00	100.07	G
ATOM	16529	CA	ALA	G1111	79.082	79.118	69.857	1.00	100.07	G
ATOM	16530	CB	ALA	G1111	79.348	78.405	71.165	1.00	58.97	G
ATOM	16531	C	ALA	G1111	79.401	80.600	69.989	1.00	100.07	G
ATOM	16532	O	ALA	G1111	79.284	81.357	69.025	1.00	100.07	G
ATOM	16533	N	ALA	G1112	79.808	81.014	71.183	1.00	100.07	G
ATOM	16534	CA	ALA	G1112	80.125	82.415	71.429	1.00	100.07	G
ATOM	16535	CB	ALA	G1112	79.212	82.969	72.532	1.00	100.07	G
ATOM	16536	C	ALA	G1112	81.589	82.631	71.803	1.00	100.07	G
ATOM	16537	O	ALA	G1112	82.048	82.185	72.855	1.00	100.07	G
ATOM	16538	N	CYS	G1113	82.314	83.325	70.933	1.00	79.58	G
ATOM	16539	CA	CYS	G1113	83.720	83.617	71.169	1.00	79.58	G
ATOM	16540	CB	CYS	G1113	84.318	84.306	69.948	1.00	54.65	G
ATOM	16541	SG	CYS	G1113	83.687	85.968	69.714	1.00	54.65	G
ATOM	16542	C	CYS	G1113	83.868	84.527	72.392	1.00	79.58	G
ATOM	16543	O	CYS	G1113	83.153	84.370	73.387	1.00	79.58	G
ATOM	16544	N	ALA	G1114	84.786	85.487	72.305	1.00	85.23	G
ATOM	16545	CA	ALA	G1114	85.042	86.414	73.404	1.00	85.23	G
ATOM	16546	CB	ALA	G1114	86.548	86.629	73.563	1.00	77.65	G
ATOM	16547	C	ALA	G1114	84.341	87.762	73.266	1.00	85.23	G
ATOM	16548	O	ALA	G1114	84.315	88.365	72.188	1.00	85.23	G
ATOM	16549	N	ALA	G1115	83.777	88.224	74.380	1.00	93.16	G
ATOM	16550	CA	ALA	G1115	83.086	89.504	74.429	1.00	93.16	G
ATOM	16551	CB	ALA	G1115	82.504	89.738	75.814	1.00	100.07	G
ATOM	16552	C	ALA	G1115	84.094	90.586	74.107	1.00	93.16	G
ATOM	16553	O	ALA	G1115	84.446	90.781	72.944	1.00	93.16	G
ATOM	16554	N	ALA	G1116	84.573	91.271	75.142	1.00	99.71	G
ATOM	16555	CA	ALA	G1116	85.545	92.336	74.955	1.00	99.71	G
ATOM	16556	CB	ALA	G1116	86.885	91.753	74.517	1.00	84.39	G
ATOM	16557	C	ALA	G1116	85.010	93.296	73.895	1.00	99.71	G
ATOM	16558	O	ALA	G1116	85.774	93.905	73.136	1.00	99.71	G
ATOM	16559	N	ALA	G1117	83.683	93.405	73.849	1.00	39.32	G
ATOM	16560	CA	ALA	G1117	82.980	94.277	72.907	1.00	39.32	G
ATOM	16561	CB	ALA	G1117	83.255	93.855	71.468	1.00	100.07	G
ATOM	16562	C	ALA	G1117	81.505	94.118	73.239	1.00	39.32	G
ATOM	16563	O	ALA	G1117	81.058	93.027	73.593	1.00	39.32	G
ATOM	16564	N	ALA	G1118	80.755	95.206	73.137	1.00	41.85	G
ATOM	16565	CA	ALA	G1118	79.343	95.176	73.470	1.00	41.85	G
ATOM	16566	CB	ALA	G1118	79.179	95.149	74.976	1.00	5.07	G
ATOM	16567	C	ALA	G1118	78.684	96.414	72.912	1.00	41.85	G
ATOM	16568	O	ALA	G1118	79.298	97.476	72.868	1.00	41.85	G
ATOM	16569	N	ILE	G1119	77.439	96.277	72.474	1.00	43.82	G
ATOM	16570	CA	ILE	G1119	76.706	97.411	71.942	1.00	43.82	G
ATOM	16571	CB	ILE	G1119	75.699	96.996	70.858	1.00	99.50	G
ATOM	16572	CG2	ILE	G1119	75.003	98.223	70.311	1.00	99.50	G
ATOM	16573	CG1	ILE	G1119	76.407	96.255	69.726	1.00	99.50	G
ATOM	16574	CD	ILE	G1119	77.419	97.094	68.983	1.00	99.50	G
ATOM	16575	C	ILE	G1119	75.919	97.912	73.130	1.00	43.82	G
ATOM	16576	O	ILE	G1119	75.474	97.108	73.944	1.00	43.82	G
ATOM	16577	N	SER	G1120	75.768	99.228	73.253	1.00	48.70	G
ATOM	16578	CA	SER	G1120	74.994	99.797	74.351	1.00	48.70	G
ATOM	16579	CB	SER	G1120	75.824	100.830	75.113	1.00	93.21	G
ATOM	16580	OG	SER	G1120	75.494	100.821	76.492	1.00	93.21	G
ATOM	16581	C	SER	G1120	73.784	100.452	73.692	1.00	48.70	G
ATOM	16582	O	SER	G1120	73.873	101.574	73.190	1.00	48.70	G
ATOM	16583	N	VAL	G1121	72.665	99.728	73.681	1.00	20.14	G
ATOM	16584	CA	VAL	G1121	71.415	100.184	73.059	1.00	20.14	G
ATOM	16585	CB	VAL	G1121	70.455	99.024	72.848	1.00	44.00	G
ATOM	16586	CG1	VAL	G1121	69.144	99.555	72.313	1.00	44.00	G
ATOM	16587	CG2	VAL	G1121	71.069	98.004	71.893	1.00	44.00	G
ATOM	16588	C	VAL	G1121	70.641	101.253	73.813	1.00	20.14	G
ATOM	16589	O	VAL	G1121	69.948	100.956	74.782	1.00	20.14	G
ATOM	16590	N	PRO	G1122	70.711	102.505	73.342	1.00	43.02	G
ATOM	16591	CD	PRO	G1122	71.225	102.887	72.022	1.00	45.30	G
ATOM	16592	CA	PRO	G1122	70.026	103.641	73.961	1.00	43.02	G
ATOM	16593	CB	PRO	G1122	70.218	104.751	72.938	1.00	45.30	G
ATOM	16594	CG	PRO	G1122	70.307	104.015	71.658	1.00	45.30	G

ATOM	16679	CG2	THR	G1132	63.562	117.589	75.879	1.00	62.99	G
ATOM	16680	C	THR	G1132	65.417	115.559	74.190	1.00	77.69	G
ATOM	16681	O	THR	G1132	65.805	115.001	73.165	1.00	77.69	G
ATOM	16682	N	LEU	G1133	64.943	114.883	75.231	1.00	64.19	G
ATOM	16683	CA	LEU	G1133	64.892	113.428	75.208	1.00	64.19	G
ATOM	16684	CB	LEU	G1133	65.770	112.891	76.326	1.00	56.52	G
ATOM	16685	CG	LEU	G1133	67.187	113.433	76.167	1.00	56.52	G
ATOM	16686	CD1	LEU	G1133	68.121	112.787	77.179	1.00	56.52	G
ATOM	16687	CD2	LEU	G1133	67.658	113.148	74.735	1.00	56.52	G
ATOM	16688	C	LEU	G1133	63.499	112.829	75.300	1.00	64.19	G
ATOM	16689	O	LEU	G1133	62.511	113.541	75.442	1.00	64.19	G
ATOM	16690	N	ARG	G1134	63.419	111.508	75.209	1.00	56.37	G
ATOM	16691	CA	ARG	G1134	62.131	110.831	75.282	1.00	56.37	G
ATOM	16692	CB	ARG	G1134	61.496	110.742	73.901	1.00	100.07	G
ATOM	16693	CG	ARG	G1134	61.361	112.070	73.188	1.00	100.07	G
ATOM	16694	CD	ARG	G1134	60.659	111.872	71.869	1.00	100.07	G
ATOM	16695	NE	ARG	G1134	61.392	112.486	70.773	1.00	100.07	G
ATOM	16696	CZ	ARG	G1134	61.219	112.165	69.497	1.00	100.07	G
ATOM	16697	NH1	ARG	G1134	60.334	111.230	69.162	1.00	100.07	G
ATOM	16698	NH2	ARG	G1134	61.931	112.776	68.557	1.00	100.07	G
ATOM	16699	C	ARG	G1134	62.297	109.434	75.834	1.00	56.37	G
ATOM	16700	O	ARG	G1134	63.387	108.856	75.773	1.00	56.37	G
ATOM	16701	N	LEU	G1135	61.208	108.880	76.352	1.00	56.74	G
ATOM	16702	CA	LEU	G1135	61.266	107.549	76.931	1.00	56.74	G
ATOM	16703	CB	LEU	G1135	59.902	107.127	77.451	1.00	100.07	G
ATOM	16704	CG	LEU	G1135	59.335	108.146	78.430	1.00	100.07	G
ATOM	16705	CD1	LEU	G1135	58.639	109.261	77.650	1.00	100.07	G
ATOM	16706	CD2	LEU	G1135	58.370	107.459	79.375	1.00	100.07	G
ATOM	16707	C	LEU	G1135	61.749	106.549	75.916	1.00	56.74	G
ATOM	16708	O	LEU	G1135	62.032	105.405	76.269	1.00	56.74	G
ATOM	16709	N	ARG	G1136	61.838	106.995	74.663	1.00	30.68	G
ATOM	16710	CA	ARG	G1136	62.292	106.168	73.551	1.00	30.68	G
ATOM	16711	CB	ARG	G1136	63.505	105.339	73.965	1.00	81.83	G
ATOM	16712	CG	ARG	G1136	64.701	105.467	73.055	1.00	81.83	G
ATOM	16713	CD	ARG	G1136	64.372	105.021	71.654	1.00	81.83	G
ATOM	16714	NE	ARG	G1136	65.323	104.031	71.169	1.00	81.83	G
ATOM	16715	CZ	ARG	G1136	65.356	103.594	69.919	1.00	81.83	G
ATOM	16716	NH1	ARG	G1136	64.493	104.064	69.030	1.00	81.83	G
ATOM	16717	NH2	ARG	G1136	66.246	102.682	69.561	1.00	81.83	G
ATOM	16718	C	ARG	G1136	61.165	105.251	73.121	1.00	30.68	G
ATOM	16719	O	ARG	G1136	60.949	104.200	73.706	1.00	30.68	G
ATOM	16720	N	LYS	G1137	60.447	105.669	72.088	1.00	22.80	G
ATOM	16721	CA	LYS	G1137	59.311	104.920	71.538	1.00	22.80	G
ATOM	16722	CB	LYS	G1137	59.265	105.138	70.013	1.00	99.87	G
ATOM	16723	CG	LYS	G1137	59.594	106.600	69.626	1.00	99.87	G
ATOM	16724	CD	LYS	G1137	59.069	107.043	68.256	1.00	99.87	G
ATOM	16725	CE	LYS	G1137	59.315	108.550	68.041	1.00	99.87	G
ATOM	16726	NZ	LYS	G1137	58.580	109.157	66.878	1.00	99.87	G
ATOM	16727	C	LYS	G1137	59.344	103.431	71.916	1.00	22.80	G
ATOM	16728	O	LYS	G1137	60.252	102.682	71.543	1.00	22.80	G
ATOM	16729	N	ARG	G1138	58.348	103.023	72.692	1.00	44.39	G
ATOM	16730	CA	ARG	G1138	58.238	101.649	73.181	1.00	44.39	G
ATOM	16731	CB	ARG	G1138	56.771	101.330	73.508	1.00	97.36	G
ATOM	16732	CG	ARG	G1138	56.065	102.387	74.382	1.00	97.36	G
ATOM	16733	CD	ARG	G1138	55.571	103.580	73.560	1.00	97.36	G
ATOM	16734	NE	ARG	G1138	54.929	104.606	74.380	1.00	97.36	G
ATOM	16735	CZ	ARG	G1138	54.204	105.606	73.886	1.00	97.36	G
ATOM	16736	NH1	ARG	G1138	54.029	105.706	72.574	1.00	97.36	G
ATOM	16737	NH2	ARG	G1138	53.657	106.508	74.697	1.00	97.36	G
ATOM	16738	C	ARG	G1138	58.804	100.605	72.220	1.00	44.39	G
ATOM	16739	O	ARG	G1138	59.983	100.250	72.307	1.00	44.39	G
ATOM	16740	N	SER	G1139	57.952	100.127	71.315	1.00	55.38	G
ATOM	16741	CA	SER	G1139	58.316	99.126	70.309	1.00	55.38	G
ATOM	16742	CB	SER	G1139	57.523	99.367	69.025	1.00	27.51	G
ATOM	16743	OG	SER	G1139	58.324	99.073	67.891	1.00	27.51	G
ATOM	16744	C	SER	G1139	59.800	99.052	69.957	1.00	55.38	G
ATOM	16745	O	SER	G1139	60.428	98.005	70.112	1.00	55.38	G
ATOM	16746	N	ASP	G1140	60.346	100.163	69.472	1.00	55.18	G
ATOM	16747	CA	ASP	G1140	61.748	100.222	69.082	1.00	55.18	G
ATOM	16748	CB	ASP	G1140	62.195	101.677	68.934	1.00	86.85	G
ATOM	16749	CG	ASP	G1140	61.370	102.436	67.919	1.00	86.85	G
ATOM	16750	OD1	ASP	G1140	61.202	101.929	66.790	1.00	86.85	G
ATOM	16751	OD2	ASP	G1140	60.891	103.541	68.242	1.00	86.85	G
ATOM	16752	C	ASP	G1140	62.650	99.504	70.081	1.00	55.18	G
ATOM	16753	O	ASP	G1140	63.573	98.778	69.694	1.00	55.18	G
ATOM	16754	N	ILE	G1141	62.384	99.704	71.369	1.00	46.74	G
ATOM	16755	CA	ILE	G1141	63.188	99.059	72.387	1.00	46.74	G
ATOM	16756	CB	ILE	G1141	62.717	99.387	73.783	1.00	41.94	G
ATOM	16757	CG2	ILE	G1141	63.697	98.799	74.780	1.00	41.94	G
ATOM	16758	CG1	ILE	G1141	62.568	100.898	73.944	1.00	41.94	G
ATOM	16759	CD	ILE	G1141	63.840	101.648	73.721	1.00	41.94	G
ATOM	16760	C	ILE	G1141	63.036	97.571	72.206	1.00	46.74	G
ATOM	16761	O	ILE	G1141	64.032	96.849	72.163	1.00	46.74	G
ATOM	16762	N	GLU	G1142	61.781	97.118	72.122	1.00	37.83	G

ATOM	16763	CA	GLU	G1142	61.492	95.702	71.923	1.00	37.83	G
ATOM	16764	CB	GLU	G1142	60.011	95.478	71.655	1.00	84.79	G
ATOM	16765	CG	GLU	G1142	59.179	95.563	72.902	1.00	84.79	G
ATOM	16766	CD	GLU	G1142	57.702	95.469	72.620	1.00	84.79	G
ATOM	16767	OE1	GLU	G1142	57.308	94.546	71.875	1.00	84.79	G
ATOM	16768	OE2	GLU	G1142	56.939	96.313	73.150	1.00	84.79	G
ATOM	16769	C	GLU	G1142	62.288	95.319	70.711	1.00	37.83	G
ATOM	16770	O	GLU	G1142	63.045	94.348	70.719	1.00	37.83	G
ATOM	16771	N	SER	G1143	62.144	96.131	69.674	1.00	32.09	G
ATOM	16772	CA	SER	G1143	62.853	95.888	68.437	1.00	32.09	G
ATOM	16773	CB	SER	G1143	62.258	96.705	67.292	1.00	33.11	G
ATOM	16774	OG	SER	G1143	62.681	96.176	66.047	1.00	33.11	G
ATOM	16775	C	SER	G1143	64.289	96.280	68.632	1.00	32.09	G
ATOM	16776	O	SER	G1143	64.974	96.588	67.674	1.00	32.09	G
ATOM	16777	N	GLY	G1144	64.742	96.281	69.875	1.00	43.72	G
ATOM	16778	CA	GLY	G1144	66.120	96.640	70.137	1.00	43.72	G
ATOM	16779	C	GLY	G1144	66.783	95.668	71.090	1.00	43.72	G
ATOM	16780	O	GLY	G1144	67.979	95.370	70.991	1.00	43.72	G
ATOM	16781	N	LEU	G1145	65.994	95.153	72.016	1.00	49.01	G
ATOM	16782	CA	LEU	G1145	66.532	94.239	72.987	1.00	49.01	G
ATOM	16783	CB	LEU	G1145	66.350	94.832	74.388	1.00	15.13	G
ATOM	16784	CG	LEU	G1145	66.730	96.310	74.565	1.00	15.13	G
ATOM	16785	CD1	LEU	G1145	66.907	96.601	76.053	1.00	15.13	G
ATOM	16786	CD2	LEU	G1145	68.017	96.627	73.831	1.00	15.13	G
ATOM	16787	C	LEU	G1145	65.926	92.838	72.904	1.00	49.01	G
ATOM	16788	O	LEU	G1145	66.552	91.863	73.323	1.00	49.01	G
ATOM	16789	N	TYR	G1146	64.720	92.709	72.365	1.00	32.08	G
ATOM	16790	CA	TYR	G1146	64.140	91.376	72.286	1.00	32.08	G
ATOM	16791	CB	TYR	G1146	62.919	91.340	71.371	1.00	33.82	G
ATOM	16792	CG	TYR	G1146	62.241	89.993	71.364	1.00	33.82	G
ATOM	16793	CD1	TYR	G1146	61.129	89.744	72.158	1.00	33.82	G
ATOM	16794	CE1	TYR	G1146	60.534	88.477	72.198	1.00	33.82	G
ATOM	16795	CD2	TYR	G1146	62.743	88.951	70.607	1.00	33.82	G
ATOM	16796	CE2	TYR	G1146	62.160	87.686	70.640	1.00	33.82	G
ATOM	16797	CZ	TYR	G1146	61.057	87.453	71.433	1.00	33.82	G
ATOM	16798	OH	TYR	G1146	60.472	86.207	71.442	1.00	33.82	G
ATOM	16799	C	TYR	G1146	65.194	90.463	71.711	1.00	32.08	G
ATOM	16800	O	TYR	G1146	65.957	90.849	70.844	1.00	32.08	G
ATOM	16801	N	GLY	G1147	65.260	89.249	72.204	1.00	27.57	G
ATOM	16802	CA	GLY	G1147	66.242	88.351	71.647	1.00	27.57	G
ATOM	16803	C	GLY	G1147	67.683	88.776	71.838	1.00	27.57	G
ATOM	16804	O	GLY	G1147	68.588					

ATOM	16847	N	GLU	G1153	75.615	92.207	82.857	1.00	47.40	G
ATOM	16848	CA	GLU	G1153	75.210	92.434	84.237	1.00	47.40	G
ATOM	16849	CB	GLU	G1153	76.431	92.717	85.111	1.00	100.07	G
ATOM	16850	CG	GLU	G1153	76.099	92.878	86.579	1.00	100.07	G
ATOM	16851	CD	GLU	G1153	77.334	93.045	87.435	1.00	100.07	G
ATOM	16852	OE1	GLU	G1153	78.173	93.913	87.104	1.00	100.07	G
ATOM	16853	OE2	GLU	G1153	77.460	92.312	88.441	1.00	100.07	G
ATOM	16854	C	GLU	G1153	74.231	93.601	84.288	1.00	47.40	G
ATOM	16855	O	GLU	G1153	74.627	94.741	84.508	1.00	47.40	G
ATOM	16856	N	VAL	G1154	72.951	93.316	84.058	1.00	76.39	G
ATOM	16857	CA	VAL	G1154	71.943	94.365	84.086	1.00	76.39	G
ATOM	16858	CB	VAL	G1154	70.617	93.919	83.475	1.00	94.04	G
ATOM	16859	CG1	VAL	G1154	69.573	95.013	83.675	1.00	94.04	G
ATOM	16860	CG2	VAL	G1154	70.805	93.624	81.989	1.00	94.04	G
ATOM	16861	C	VAL	G1154	71.714	94.766	85.518	1.00	76.39	G
ATOM	16862	O	VAL	G1154	71.189	94.004	86.325	1.00	76.39	G
ATOM	16863	N	GLU	G1155	72.108	95.999	85.792	1.00	65.33	G
ATOM	16864	CA	GLU	G1155	72.064	96.627	87.109	1.00	65.33	G
ATOM	16865	CB	GLU	G1155	72.732	98.017	87.000	1.00	100.07	G
ATOM	16866	CG	GLU	G1155	74.201	98.018	86.523	1.00	100.07	G
ATOM	16867	CD	GLU	G1155	74.411	98.755	85.192	1.00	100.07	G
ATOM	16868	OE1	GLU	G1155	73.921	99.899	85.051	1.00	100.07	G
ATOM	16869	OE2	GLU	G1155	75.077	98.198	84.287	1.00	100.07	G
ATOM	16870	C	GLU	G1155	70.764	96.768	87.937	1.00	65.33	G
ATOM	16871	O	GLU	G1155	70.044	95.808	88.223	1.00	65.33	G
ATOM	16872	N	ALA	G1156	70.516	98.010	88.329	1.00	100.07	G
ATOM	16873	CA	ALA	G1156	69.407	98.409	89.173	1.00	100.07	G
ATOM	16874	CB	ALA	G1156	69.353	99.923	89.204	1.00	100.07	G
ATOM	16875	C	ALA	G1156	68.000	97.842	88.994	1.00	100.07	G
ATOM	16876	O	ALA	G1156	67.735	96.999	88.147	1.00	100.07	G
ATOM	16877	N	LEU	G1157	67.122	98.361	89.849	1.00	65.69	G
ATOM	16878	CA	LEU	G1157	65.705	98.028	89.996	1.00	65.69	G
ATOM	16879	CB	LEU	G1157	64.878	98.417	88.769	1.00	45.45	G
ATOM	16880	CG	LEU	G1157	63.460	98.784	89.262	1.00	45.45	G
ATOM	16881	CD1	LEU	G1157	62.627	99.370	88.153	1.00	45.45	G
ATOM	16882	CD2	LEU	G1157	62.767	97.565	89.831	1.00	45.45	G
ATOM	16883	C	LEU	G1157	65.431	96.580	90.360	1.00	65.69	G
ATOM	16884	O	LEU	G1157	65.752	95.666	89.604	1.00	65.69	G
ATOM	16885	N	GLY	G1158	64.826	96.399	91.534	1.00	49.67	G
ATOM	16886	CA	GLY	G1158	64.491	95.082	92.034	1.00	49.67	G
ATOM	16887	C	GLY	G1158	65.450	93.980	91.623	1.00	49.67	G
ATOM	16888	O	GLY	G1158	66.497	93.798	92.237	1.00	49.67	G
ATOM	16889	N	ARG	G1159	65.080	93.257	90.567	1.00	51.44	G
ATOM	16890	CA	ARG	G1159	65.840	92.127	90.016	1.00	51.44	G
ATOM	16891	CB	ARG	G1159	65.062	91.531	88.826	1.00	100.06	G
ATOM	16892	CG	ARG	G1159	65.528	90.152	88.339	1.00	100.06	G
ATOM	16893	CD	ARG	G1159	64.511	89.516	87.360	1.00	100.06	G
ATOM	16894	NE	ARG	G1159	64.552	88.047	87.390	1.00	100.06	G
ATOM	16895	CZ	ARG	G1159	63.644	87.249	86.829	1.00	100.06	G
ATOM	16896	NH1	ARG	G1159	62.609	87.767	86.178	1.00	100.06	G
ATOM	16897	NH2	ARG	G1159	63.760	85.931	86.934	1.00	100.06	G
ATOM	16898	C	ARG	G1159	67.264	92.444	89.581	1.00	51.44	G
ATOM	16899	O	ARG	G1159	67.652	93.599	89.454	1.00	51.44	G
ATOM	16900	N	ARG	G1160	68.038	91.391	89.370	1.00	47.80	G
ATOM	16901	CA	ARG	G1160	69.413	91.516	88.920	1.00	47.80	G
ATOM	16902	CB	ARG	G1160	70.370	91.077	90.018	1.00	92.45	G
ATOM	16903	CG	ARG	G1160	70.382	92.040	91.188	1.00	92.45	G
ATOM	16904	CD	ARG	G1160	70.929	93.394	90.765	1.00	92.45	G
ATOM	16905	NE	ARG	G1160	72.249	93.632	91.336	1.00	92.45	G
ATOM	16906	CZ	ARG	G1160	73.139	94.476	90.832	1.00	92.45	G
ATOM	16907	NH1	ARG	G1160	72.857	95.169	89.740	1.00	92.45	G
ATOM	16908	NH2	ARG	G1160	74.314	94.628	91.425	1.00	92.45	G
ATOM	16909	C	ARG	G1160	69.526	90.605	87.718	1.00	47.80	G
ATOM	16910	O	ARG	G1160	69.137	89.447	87.790	1.00	47.80	G
ATOM	16911	N	LEU	G1161	70.047	91.121	86.610	1.00	61.41	G
ATOM	16912	CA	LEU	G1161	70.156	90.322	85.396	1.00	61.41	G
ATOM	16913	CB	LEU	G1161	69.456	91.072	84.262	1.00	25.98	G
ATOM	16914	CG	LEU	G1161	68.131	91.766	84.658	1.00	25.98	G
ATOM	16915	CD1	LEU	G1161	67.520	92.441	83.447	1.00	25.98	G
ATOM	16916	CD2	LEU	G1161	67.135	90.760	85.234	1.00	25.98	G
ATOM	16917	C	LEU	G1161	71.612	89.994	85.036	1.00	61.41	G
ATOM	16918	O	LEU	G1161	72.358	90.861	84.571	1.00	61.41	G
ATOM	16919	N	GLU	G1162	71.994	88.734	85.263	1.00	63.09	G
ATOM	16920	CA	GLU	G1162	73.346	88.215	85.012	1.00	63.09	G
ATOM	16921	CB	GLU	G1162	73.326	86.689	85.099	1.00	100.07	G
ATOM	16922	CG	GLU	G1162	73.055	86.145	86.489	1.00	100.07	G
ATOM	16923	CD	GLU	G1162	72.207	84.878	86.477	1.00	100.07	G
ATOM	16924	OE1	GLU	G1162	72.550	83.911	85.758	1.00	100.07	G
ATOM	16925	OE2	GLU	G1162	71.190	84.851	87.203	1.00	100.07	G
ATOM	16926	C	GLU	G1162	73.974	88.622	83.679	1.00	63.09	G
ATOM	16927	O	GLU	G1162	73.356	89.316	82.880	1.00	63.09	G
ATOM	16928	N	GLU	G1163	75.207	88.180	83.445	1.00	62.55	G
ATOM	16929	CA	GLU	G1163	75.917	88.487	82.206	1.00	62.55	G
ATOM	16930	CB	GLU	G1163	77.359	87.994	82.309	1.00	99.38	G

ATOM	16931	CG	GLU	G1163	78.385	88.834	81.571	1.00	99.38	G
ATOM	16932	CD	GLU	G1163	79.802	88.616	82.102	1.00	99.38	G
ATOM	16933	OE1	GLU	G1163	80.300	87.470	82.050	1.00	99.38	G
ATOM	16934	OE2	GLU	G1163	80.421	89.591	82.581	1.00	99.38	G
ATOM	16935	C	GLU	G1163	75.169	87.735	81.113	1.00	62.55	G
ATOM	16936	O	GLU	G1163	74.521	86.734	81.407	1.00	62.55	G
ATOM	16937	N	GLY	G1164	75.239	88.220	79.869	1.00	52.57	G
ATOM	16938	CA	GLY	G1164	74.546	87.575	78.756	1.00	52.57	G
ATOM	16939	C	GLY	G1164	73.403	86.696	79.226	1.00	52.57	G
ATOM	16940	O	GLY	G1164	73.563	85.490	79.413	1.00	52.57	G
ATOM	16941	N	ARG	G1165	72.232	87.287	79.395	1.00	86.83	G
ATOM	16942	CA	ARG	G1165	71.127	86.513	79.912	1.00	86.83	G
ATOM	16943	CB	ARG	G1165	70.579	87.227	81.140	1.00	100.07	G
ATOM	16944	CG	ARG	G1165	69.778	86.335	82.050	1.00	100.07	G
ATOM	16945	CD	ARG	G1165	68.672	87.101	82.724	1.00	100.07	G
ATOM	16946	NE	ARG	G1165	67.837	86.206	83.507	1.00	100.07	G
ATOM	16947	CZ	ARG	G1165	66.639	86.530	83.972	1.00	100.07	G
ATOM	16948	NH1	ARG	G1165	66.140	87.734	83.723	1.00	100.07	G
ATOM	16949	NH2	ARG	G1165	65.945	85.652	84.685	1.00	100.07	G
ATOM	16950	C	ARG	G1165	69.965	86.141	78.989	1.00	86.83	G
ATOM	16951	O	ARG	G1165	69.036	85.464	79.428	1.00	86.83	G
ATOM	16952	N	TYR	G1166	69.995	86.552	77.725	1.00	19.61	G
ATOM	16953	CA	TYR	G1166	68.880	86.230	76.824	1.00	19.61	G
ATOM	16954	CB	TYR	G1166	68.670	84.713	76.691	1.00	70.81	G
ATOM	16955	CG	TYR	G1166	69.613	83.973	75.776	1.00	70.81	G
ATOM	16956	CD1	TYR	G1166	70.882	83.596	76.198	1.00	70.81	G
ATOM	16957	CE1	TYR	G1166	71.745	82.900	75.343	1.00	70.81	G
ATOM	16958	CD2	TYR	G1166	69.230	83.644	74.483	1.00	70.81	G
ATOM	16959	CE2	TYR	G1166	70.084	82.955	73.623	1.00	70.81	G
ATOM	16960	CZ	TYR	G1166	71.336	82.590	74.055	1.00	70.81	G
ATOM	16961	OH	TYR	G1166	72.172	81.915	73.199	1.00	70.81	G
ATOM	16962	C	TYR	G1166	67.622	86.805	77.463	1.00	19.61	G
ATOM	16963	O	TYR	G1166	66.918	86.102	78.209	1.00	19.61	G
ATOM	16964	N	LEU	G1167	67.336	88.073	77.192	1.00	24.43	G
ATOM	16965	CA	LEU	G1167	66.153	88.678	77.778	1.00	24.43	G
ATOM	16966	CB	LEU	G1167	66.435	90.108	78.245	1.00	56.14	G
ATOM	16967	CG	LEU	G1167	67.088	91.099	77.298	1.00	56.14	G
ATOM	16968	CD1	LEU	G1167	67.298	92.407	78.030	1.00	56.14	G
ATOM	16969	CD2	LEU	G1167	68.415	90.556	76.825	1.00	56.14	G
ATOM	16970	C	LEU	G1167	64.985	88.651	76.821	1.00	24.43	G
ATOM	16971	O	LEU	G1167	64.956	89.370	75.819	1.00	24.43	G
ATOM	16972	N	SER	G1168	64.028	87.787	77.144	1.00	34.32	G
ATOM	16973	CA	SER	G1168	62.835	87.622	76.338	1.00	34.32	G
ATOM	16974	CB	SER	G1168	62.125	86.311	76.690	1.00	100.07	G
ATOM	16975	OG	SER	G1168	62.836	85.186	76.190	1.00	100.07	G
ATOM	16976	C	SER	G1168	61.910	88.785	76.576	1.00	34.32	G
ATOM	16977	O	SER	G1168	61.981	89.418	77.619	1.00	34.32	G
ATOM	16978	N	LEU	G1169	61.059	89.055	75.588	1.00	40.61	G
ATOM	16979	CA	LEU	G1169	60.080	90.130	75.627	1.00	40.61	G
ATOM	16980	CB	LEU	G1169	58.836	89.736	74.836	1.00	38.23	G
ATOM	16981	CG	LEU	G1169	57.893	90.879	74.477	1.00	38.23	G
ATOM	16982	CD1	LEU	G1169	58.626	91.825	73.560	1.00	38.23	G
ATOM	16983	CD2	LEU	G1169	56.640	90.358	73.796	1.00	38.23	G
ATOM	16984	C	LEU	G1169	59.699	90.403	77.063	1.00	40.61	G
ATOM	16985	O	LEU	G1169	59.405	91.541	77.425	1.00	40.61	G
ATOM	16986	N	GLU	G1170	59.693	89.353	77.880	1.00	44.99	G
ATOM	16987	CA	GLU	G1170	59.387	89.498	79.302	1.00	44.99	G
ATOM	16988	CB	GLU	G1170	59.480	88.142	80.000	1.00	100.07	G
ATOM	16989	CG	GLU	G1170	58.645	87.033	79.370	1.00	100.07	G
ATOM	16990	CD	GLU	G1170	58.836	85.700	80.086	1.00	100.07	G
ATOM	16991	OE1	GLU	G1170	58.823	85.700	81.338	1.00	100.07	G
ATOM	16992	OE2	GLU	G1170	58.992	84.660	79.407	1.00	100.07	G
ATOM	16993	C	GLU	G1170	60.424	90.449	79.917	1.00	44.99	G
ATOM	16994	O	GLU	G1170	60.119	91.596	80.262	1.00	44.99	G
ATOM	16995	N	ASP	G1171	61.655	89.956	80.039	1.00	28.12	G
ATOM	16996	CA	ASP	G1171	62.747	90.742	80.586	1.00	28.12	G
ATOM	16997	CB	ASP	G1171	64.047	89.940	80.524	1.00	78.44	G
ATOM	16998	CG	ASP	G1171	64.073	88.805	81.525	1.00	78.44	G
ATOM	16999	OD1	ASP	G1171	63.769	89.059	82.708	1.00	78.44	G
ATOM	17000	OD2	ASP	G1171	64.406	87.667	81.137	1.00	78.44	G
ATOM	17001	C	ASP	G1171	62.929	92.104	79.899	1.00	28.12	G
ATOM	17002	O	ASP	G1171	63.263	93.087	80.564	1.00	28.12	G
ATOM	17003	N	VAL	G1172	62.726	92.177	78.585	1.00	39.36	G
ATOM	17004	CA	VAL	G1172	62.865	93.465	77.901	1.00	39.36	G
ATOM	17005	CB	VAL	G1172	62.264	93.480	76.459	1.00	54.74	G
ATOM	17006	CG1	VAL	G1172	62.490	94.856	75.805	1.00	54.74	G
ATOM	17007	CG2	VAL	G1172	62.880	92.376	75.613	1.00	54.74	G
ATOM	17008	C	VAL	G1172	62.062	94.446	78.731	1.00	39.36	G
ATOM	17009	O	VAL	G1172	62.626	95.193	79.534	1.00	39.36	G
ATOM	17010	N	HIS	G1173	60.743	94.422	78.552	1.00	29.78	G
ATOM	17011	CA	HIS	G1173	59.869	95.311	79.290	1.00	29.78	G
ATOM	17012	CB	HIS	G1173	58.508	94.674	79.446	1.00	76.01	G
ATOM	17013	CG	HIS	G1173	57.806	94.489	78.146	1.00	76.01	G
ATOM	17014	CD2	HIS	G1173	58.243	94.648	76.877	1.00	76.01	G

ATOM	17015	ND1	HIS	G1173	56.483	94.118	78.056	1.00	76.01	G
ATOM	17016	CE1	HIS	G1173	56.135	94.059	76.784	1.00	76.01	G
ATOM	17017	NE2	HIS	G1173	57.182	94.376	76.048	1.00	76.01	G
ATOM	17018	C	HIS	G1173	60.456	95.661	80.645	1.00	29.78	G
ATOM	17019	O	HIS	G1173	60.603	96.836	80.976	1.00	29.78	G
ATOM	17020	N	PHE	G1174	60.809	94.652	81.431	1.00	27.56	G
ATOM	17021	CA	PHE	G1174	61.406	94.934	82.721	1.00	27.56	G
ATOM	17022	CB	PHE	G1174	62.202	93.751	83.215	1.00	26.64	G
ATOM	17023	CG	PHE	G1174	63.008	94.047	84.435	1.00	26.64	G
ATOM	17024	CD1	PHE	G1174	62.387	94.302	85.646	1.00	26.64	G
ATOM	17025	CD2	PHE	G1174	64.396	94.055	84.381	1.00	26.64	G
ATOM	17026	CE1	PHE	G1174	63.140	94.557	86.791	1.00	26.64	G
ATOM	17027	CE2	PHE	G1174	65.151	94.308	85.517	1.00	26.64	G
ATOM	17028	CZ	PHE	G1174	64.519	94.559	86.726	1.00	26.64	G
ATOM	17029	C	PHE	G1174	62.343	96.118	82.559	1.00	27.56	G
ATOM	17030	O	PHE	G1174	62.168	97.142	83.206	1.00	27.56	G
ATOM	17031	N	LEU	G1175	63.332	95.990	81.687	1.00	24.01	G
ATOM	17032	CA	LEU	G1175	64.246	97.098	81.485	1.00	24.01	G
ATOM	17033	CB	LEU	G1175	65.152	96.852	80.275	1.00	9.68	G
ATOM	17034	CG	LEU	G1175	65.990	95.571	80.233	1.00	9.68	G
ATOM	17035	CD1	LEU	G1175	67.348	95.872	79.692	1.00	9.68	G
ATOM	17036	CD2	LEU	G1175	66.153	95.011	81.596	1.00	9.68	G
ATOM	17037	C	LEU	G1175	63.439	98.385	81.293	1.00	24.01	G
ATOM	17038	O	LEU	G1175	63.660	99.365	82.013	1.00	24.01	G
ATOM	17039	N	ILE	G1176	62.495	98.371	80.346	1.00	15.29	G
ATOM	17040	CA	ILE	G1176	61.637	99.532	80.059	1.00	15.29	G
ATOM	17041	CB	ILE	G1176	60.324	99.113	79.376	1.00	55.80	G
ATOM	17042	CG2	ILE	G1176	59.366	100.304	79.324	1.00	55.80	G
ATOM	17043	CG1	ILE	G1176	60.603	98.575	77.979	1.00	55.80	G
ATOM	17044	CD	ILE	G1176	60.994	99.639	77.012	1.00	55.80	G
ATOM	17045	C	ILE	G1176	61.239	100.362	81.287	1.00	15.29	G
ATOM	17046	O	ILE	G1176	61.729	101.470	81.473	1.00	15.29	G
ATOM	17047	N	LYS	G1177	60.339	99.839	82.110	1.00	68.82	G
ATOM	17048	CA	LYS	G1177	59.896	100.568	83.293	1.00	68.82	G
ATOM	17049	CB	LYS	G1177	58.764	99.800	83.986	1.00	98.64	G
ATOM	17050	CG	LYS	G1177	57.506	99.709	83.122	1.00	98.64	G
ATOM	17051	CD	LYS	G1177	56.423	98.810	83.711	1.00	98.64	G
ATOM	17052	CE	LYS	G1177	55.287	98.607	82.706	1.00	98.64	G
ATOM	17053	NZ	LYS	G1177	54.223	97.689	83.200	1.00	98.64	G
ATOM	17054	C	LYS	G1177	61.055	100.824	84.254	1.00	68.82	G
ATOM	17055	O	LYS	G1177	61.152	101.890	84.870	1.00	68.82	G
ATOM	17056	N	ALA	G1178	61.946	99.850	84.371	1.00	35.80	G
ATOM	17057	CA	ALA	G1178	63.100	100.001	85.236	1.00	35.80	G
ATOM	17058	CB	ALA	G1178	63.830	98.683	85.362	1.00	37.16	G
ATOM	17059	C	ALA	G1178	64.005	101.038	84.601	1.00	35.80	G
ATOM	17060	O	ALA	G1178	65.221	100.990	84.750	1.00	35.80	G
ATOM	17061	N	ALA	G1179	63.403	101.962	83.866	1.00	28.53	G
ATOM	17062	CA	ALA	G1179	64.135	103.026	83.194	1.00	28.53	G
ATOM	17063	CB	ALA	G1179	64.597	102.579	81.833	1.00	5.07	G
ATOM	17064	C	ALA	G1179	63.151	104.166	83.071	1.00	28.53	G
ATOM	17065	O	ALA	G1179	63.502	105.267	82.643	1.00	28.53	G
ATOM	17066	N	GLU	G1180	61.901	103.861	83.415	1.00	40.04	G
ATOM	17067	CA	GLU	G1180	60.829	104.844	83.448	1.00	40.04	G
ATOM	17068	CB	GLU	G1180	59.479	104.203	83.148	1.00	69.59	G
ATOM	17069	CG	GLU	G1180	58.989	104.418	81.745	1.00	69.59	G
ATOM	17070	CD	GLU	G1180	57.832	103.500	81.393	1.00	69.59	G
ATOM	17071	OE1	GLU	G1180	57.982	102.269	81.563	1.00	69.59	G
ATOM	17072	OE2	GLU	G1180	56.779	104.001	80.939	1.00	69.59	G
ATOM	17073	C	GLU	G1180	60.907	105.188	84.924	1.00	40.04	G
ATOM	17074	O	GLU	G1180	60.314	106.154	85.403	1.00	40.04	G
ATOM	17075	N	ALA	G1181	61.664	104.359	85.633	1.00	55.50	G
ATOM	17076	CA	ALA	G1181	61.866	104.517	87.058	1.00	55.50	G
ATOM	17077	CB	ALA	G1181	62.027	103.149	87.706	1.00	100.07	G
ATOM	17078	C	ALA	G1181	63.103	105.372	87.314	1.00	55.50	G
ATOM	17079	O	ALA	G1181	63.156	106.141	88.270	1.00	55.50	G
ATOM	17080	N	GLY	G1182	64.103	105.232	86.456	1.00	69.70	G
ATOM	17081	CA	GLY	G1182	65.307	106.015	86.624	1.00	69.70	G
ATOM	17082	C	GLY	G1182	66.529	105.166	86.867	1.00	69.70	G
ATOM	17083	O	GLY	G1182	67.614	105.698	87.078	1.00	69.70	G
ATOM	17084	N	GLU	G1183	66.364	103.847	86.816	1.00	20.92	G
ATOM	17085	CA	GLU	G1183	67.469	102.922	87.053	1.00	20.92	G
ATOM	17086	CB	GLU	G1183	66.960	101.607	87.635	1.00	50.24	G
ATOM	17087	CG	GLU	G1183	66.914	101.580	89.145	1.00	50.24	G
ATOM	17088	CD	GLU	G1183	65.621	102.091	89.702	1.00	50.24	G
ATOM	17089	OE1	GLU	G1183	65.247	103.239	89.385	1.00	50.24	G
ATOM	17090	OE2	GLU	G1183	64.980	101.338	90.461	1.00	50.24	G
ATOM	17091	C	GLU	G1183	68.389	102.611	85.888	1.00	20.92	G
ATOM	17092	O	GLU	G1183	69.552	102.317	86.115	1.00	20.92	G
ATOM	17093	N	VAL	G1184	67.905	102.639	84.653	1.00	56.21	G
ATOM	17094	CA	VAL	G1184	68.808	102.366	83.541	1.00	56.21	G
ATOM	17095	CB	VAL	G1184	68.861	100.872	83.213	1.00	68.55	G
ATOM	17096	CG1	VAL	G1184	69.831	100.638	82.075	1.00	68.55	G
ATOM	17097	CG2	VAL	G1184	69.317	100.091	84.425	1.00	68.55	G
ATOM	17098	C	VAL	G1184	68.489	103.149	82.268	1.00	56.21	G

ATOM	17099	O	VAL	G1184	67.322	103.373	81.941	1.00	56.21	G
ATOM	17100	N	ARG	G1185	69.545	103.563	81.564	1.00	48.00	G
ATOM	17101	CA	ARG	G1185	69.423	104.345	80.332	1.00	48.00	G
ATOM	17102	CB	ARG	G1185	69.996	105.748	80.550	1.00	45.21	G
ATOM	17103	CG	ARG	G1185	68.957	106.865	80.575	1.00	45.21	G
ATOM	17104	CD	ARG	G1185	69.547	108.174	81.096	1.00	45.21	G
ATOM	17105	NE	ARG	G1185	68.556	109.242	81.161	1.00	45.21	G
ATOM	17106	CZ	ARG	G1185	68.153	109.947	80.109	1.00	45.21	G
ATOM	17107	NH1	ARG	G1185	68.664	109.697	78.911	1.00	45.21	G
ATOM	17108	NH2	ARG	G1185	67.230	110.893	80.248	1.00	45.21	G
ATOM	17109	C	ARG	G1185	70.108	103.718	79.113	1.00	48.00	G
ATOM	17110	O	ARG	G1185	69.780	104.048	77.976	1.00	48.00	G
ATOM	17111	N	GLU	G1186	71.064	102.827	79.338	1.00	50.67	G
ATOM	17112	CA	GLU	G1186	71.766	102.185	78.233	1.00	50.67	G
ATOM	17113	CB	GLU	G1186	73.130	102.832	78.019	1.00	89.37	G
ATOM	17114	CG	GLU	G1186	73.123	104.074	77.175	1.00	89.37	G
ATOM	17115	CD	GLU	G1186	74.504	104.701	77.079	1.00	89.37	G
ATOM	17116	OE1	GLU	G1186	75.486	103.962	76.838	1.00	89.37	G
ATOM	17117	OE2	GLU	G1186	74.606	105.937	77.239	1.00	89.37	G
ATOM	17118	C	GLU	G1186	71.974	100.699	78.472	1.00	50.67	G
ATOM	17119	O	GLU	G1186	72.868	100.298	79.214	1.00	50.67	G
ATOM	17120	N	VAL	G1187	71.147	99.872	77.852	1.00	38.99	G
ATOM	17121	CA	VAL	G1187	71.308	98.436	77.997	1.00	38.99	G
ATOM	17122	CB	VAL	G1187	70.029	97.708	77.659	1.00	15.33	G
ATOM	17123	CG1	VAL	G1187	70.200	96.235	77.928	1.00	15.33	G
ATOM	17124	CG2	VAL	G1187	68.883	98.309	78.448	1.00	15.33	G
ATOM	17125	C	VAL	G1187	72.388	98.009	77.010	1.00	38.99	G
ATOM	17126	O	VAL	G1187	72.384	98.415	75.850	1.00	38.99	G
ATOM	17127	N	PRO	G1188	73.334	97.190	77.463	1.00	71.13	G
ATOM	17128	CD	PRO	G1188	73.697	97.111	78.883	1.00	15.83	G
ATOM	17129	CA	PRO	G1188	74.436	96.705	76.633	1.00	71.13	G
ATOM	17130	CB	PRO	G1188	75.618	96.939	77.528	1.00	15.83	G
ATOM	17131	CG	PRO	G1188	75.057	96.451	78.826	1.00	15.83	G
ATOM	17132	C	PRO	G1188	74.363	95.242	76.181	1.00	71.13	G
ATOM	17133	O	PRO	G1188	74.762	94.337	76.918	1.00	71.13	G
ATOM	17134	N	VAL	G1189	73.870	95.027	74.963	1.00	23.32	G
ATOM	17135	CA	VAL	G1189	73.765	93.699	74.395	1.00	23.32	G
ATOM	17136	CB	VAL	G1189	72.527	93.548	73.555	1.00	81.27	G
ATOM	17137	CG1	VAL	G1189	72.410	92.112	73.107	1.00	81.27	G
ATOM	17138	CG2	VAL	G1189	71.324	93.970	74.349	1.00	81.27	G
ATOM	17139	C	VAL	G1189	74.966	93.487	73.501	1.00	23.32	G
ATOM	17140	O	VAL	G1189	75.502	94.436	72.929	1.00	23.32	G
ATOM	17141	N	ARG	G1190	75.374	92.231	73.374	1.00	45.05	G
ATOM	17142	CA	ARG	G1190	76.535	91.857	72.581	1.00	45.05	G
ATOM	17143	CB	ARG	G1190	77.498	91.102	73.496	1.00	62.67	G
ATOM	17144	CG	ARG	G1190	78.270	89.948	72.903	1.00	62.67	G
ATOM	17145	CD	ARG	G1190	78.814	89.102	74.045	1.00	62.67	G
ATOM	17146	NE	ARG	G1190	79.662	88.006	73.598	1.00	62.67	G
ATOM	17147	CZ	ARG	G1190	79.654	86.794	74.143	1.00	62.67	G
ATOM	17148	NH1	ARG	G1190	78.826	86.533	75.147	1.00	62.67	G
ATOM	17149	NH2	ARG	G1190	80.484	85.851	73.704	1.00	62.67	G
ATOM	17150	C	ARG	G1190	76.149	91.022	71.367	1.00	45.05	G
ATOM	17151	O	ARG	G1190	75.758	89.859	71.499	1.00	45.05	G
ATOM	17152	N	ALA	G1191	76.264	91.621	70.183	1.00	100.07	G
ATOM	17153	CA	ALA	G1191	75.911	90.927	68.948	1.00	100.07	G
ATOM	17154	CB	ALA	G1191	74.449	90.510	69.000	1.00	100.07	G
ATOM	17155	C	ALA	G1191	76.150	91.757	67.688	1.00	100.07	G
ATOM	17156	O	ALA	G1191	75.895	92.968	67.682	1.00	100.07	G
ATOM	17157	N	ALA	G1192	76.612	91.071	66.635	1.00	43.55	G
ATOM	17158	CA	ALA	G1192	76.896	91.644	65.318	1.00	43.55	G
ATOM	17159	CB	ALA	G1192	75.636	91.593	64.450	1.00	5.07	G
ATOM	17160	C	ALA	G1192	77.455	93.062	65.352	1.00	43.55	G
ATOM	17161	O	ALA	G1192	77.163	93.845	66.259	1.00	43.55	G
ATOM	17162	N	ALA	G1193	78.257	93.401	64.351	1.00	95.36	G
ATOM	17163	CA	ALA	G1193	78.858	94.726	64.291	1.00	95.36	G
ATOM	17164	CB	ALA	G1193	77.795	95.813	64.554	1.00	5.07	G
ATOM	17165	C	ALA	G1193	79.939	94.780	65.359	1.00	95.36	G
ATOM	17166	O	ALA	G1193	80.786	95.677	65.360	1.00	95.36	G
ATOM	17167	N	ALA	G1194	79.907	93.808	66.268	1.00	73.58	G
ATOM	17168	CA	ALA	G1194	80.887	93.763	67.337	1.00	73.58	G
ATOM	17169	CB	ALA	G1194	80.297	94.386	68.611	1.00	5.07	G
ATOM	17170	C	ALA	G1194	81.492	92.390	67.648	1.00	73.58	G
ATOM	17171	O	ALA	G1194	81.993	92.189	68.749	1.00	73.58	G
ATOM	17172	N	CYS	G1195	81.448	91.444	66.709	1.00	77.32	G
ATOM	17173	CA	CYS	G1195	82.079	90.153	66.978	1.00	77.32	G
ATOM	17174	C	CYS	G1195	82.814	89.456	65.860	1.00	77.32	G
ATOM	17175	O	CYS	G1195	82.503	89.621	64.679	1.00	77.32	G
ATOM	17176	CB	CYS	G1195	81.118	89.158	67.609	1.00	100.07	G
ATOM	17177	SG	CYS	G1195	79.662	88.543	66.715	1.00	100.07	G
ATOM	17178	N	ALA	G1196	83.799	88.661	66.273	1.00	100.07	G
ATOM	17179	CA	ALA	G1196	84.662	87.909	65.378	1.00	100.07	G
ATOM	17180	CB	ALA	G1196	85.790	87.287	66.173	1.00	56.39	G
ATOM	17181	C	ALA	G1196	83.948	86.843	64.550	1.00	100.07	G
ATOM	17182	O	ALA	G1196	82.908	87.117	63.955	1.00	100.07	G

ATOM	17183	N	ALA	G1197	84.506	85.631	64.515	1.00100.07	G
ATOM	17184	CA	ALA	G1197	83.942	84.544	63.710	1.00100.07	G
ATOM	17185	CB	ALA	G1197	82.576	84.085	64.287	1.00 5.07	G
ATOM	17186	C	ALA	G1197	83.779	85.196	62.333	1.00100.07	G
ATOM	17187	O	ALA	G1197	82.956	84.796	61.511	1.00100.07	G
ATOM	17188	N	ALA	G1198	84.620	86.205	62.114	1.00100.07	G
ATOM	17189	CA	ALA	G1198	84.643	87.043	60.918	1.00100.07	G
ATOM	17190	CB	ALA	G1198	85.793	88.041	61.028	1.00100.07	G
ATOM	17191	C	ALA	G1198	84.648	86.424	59.524	1.00100.07	G
ATOM	17192	O	ALA	G1198	84.342	87.129	58.557	1.00100.07	G
ATOM	17193	N	ALA	G1199	85.013	85.149	59.392	1.00100.05	G
ATOM	17194	CA	ALA	G1199	85.010	84.531	58.067	1.00100.05	G
ATOM	17195	CB	ALA	G1199	85.527	83.093	58.129	1.00 85.87	G
ATOM	17196	C	ALA	G1199	83.555	84.562	57.647	1.00100.05	G
ATOM	17197	O	ALA	G1199	82.846	83.557	57.685	1.00100.05	G
ATOM	17198	N	ALA	G1200	83.109	85.753	57.280	1.00 99.72	G
ATOM	17199	CA	ALA	G1200	81.739	85.959	56.876	1.00 99.72	G
ATOM	17200	CB	ALA	G1200	81.369	84.957	55.805	1.00100.07	G
ATOM	17201	C	ALA	G1200	80.784	85.820	58.055	1.00 99.72	G
ATOM	17202	O	ALA	G1200	79.763	86.503	58.117	1.00 99.72	G
ATOM	17203	N	ALA	G1201	81.127	84.970	59.014	1.00 94.81	G
ATOM	17204	CA	ALA	G1201	80.228	84.721	60.135	1.00 94.81	G
ATOM	17205	CB	ALA	G1201	80.185	83.207	60.376	1.00100.07	G
ATOM	17206	C	ALA	G1201	80.401	85.447	61.478	1.00 94.81	G
ATOM	17207	O	ALA	G1201	81.044	86.490	61.592	1.00 94.81	G
ATOM	17208	N	CYS	G1202	79.752	84.840	62.467	1.00 43.61	G
ATOM	17209	CA	CYS	G1202	79.690	85.173	63.896	1.00 43.61	G
ATOM	17210	C	CYS	G1202	78.257	85.077	64.386	1.00 43.61	G
ATOM	17211	O	CYS	G1202	77.336	85.679	63.811	1.00 43.61	G
ATOM	17212	CB	CYS	G1202	80.265	86.549	64.310	1.00 98.43	G
ATOM	17213	SG	CYS	G1202	80.095	86.631	66.147	1.00 98.43	G
ATOM	17214	N	ALA	G1203	78.100	84.307	65.464	1.00 74.39	G
ATOM	17215	CA	ALA	G1203	76.806	84.073	66.074	1.00 74.39	G
ATOM	17216	CB	ALA	G1203	76.015	83.139	65.207	1.00100.07	G
ATOM	17217	C	ALA	G1203	76.842	83.533	67.500	1.00 74.39	G
ATOM	17218	O	ALA	G1203	77.865	83.626	68.192	1.00 74.39	G
ATOM	17219	N	ALA	G1204	75.702	82.960	67.904	1.00 74.28	G
ATOM	17220	CA	ALA	G1204	75.476	82.407	69.242	1.00 74.28	G
ATOM	17221	CB	ALA	G1204	76.571	81.440	69.612	1.00100.07	G
ATOM	17222	C	ALA	G1204	75.446	83.581	70.213	1.00 74.28	G
ATOM	17223	O	ALA	G1204	75.119	83.452	71.386	1.00 74.28	G
ATOM	17224	N	CYS	G1205	75.806	84.735	69.680	1.00 32.55	G
ATOM	17225	CA	CYS	G1205	75.829	85.996	70.391	1.00 32.55	G
ATOM	17226	CB	CYS	G1205	77.289	86.494	70.583	1.00 77.38	G
ATOM	17227	SG	CYS	G1205	78.090	87.613	69.354	1.00 77.38	G
ATOM	17228	C	CYS	G1205	75.058	86.853	69.399	1.00 32.55	G
ATOM	17229	O	CYS	G1205	74.957	88.064	69.554	1.00 32.55	G
ATOM	17230	N	ALA	G1206	74.541	86.185	68.360	1.00 69.64	G
ATOM	17231	CA	ALA	G1206	73.750	86.840	67.320	1.00 69.64	G
ATOM	17232	CB	ALA	G1206	73.210	85.832	66.295	1.00 17.15	G
ATOM	17233	C	ALA	G1206	72.615	87.354	68.127	1.00 69.64	G
ATOM	17234	O	ALA	G1206	72.057	88.416	67.863	1.00 69.64	G
ATOM	17235	N	GLY	G1207	72.283	86.560	69.129	1.00 44.17	G
ATOM	17236	CA	GLY	G1207	71.205	86.923	70.006	1.00 44.17	G
ATOM	17237	C	GLY	G1207	70.179	85.826	70.087	1.00 44.17	G
ATOM	17238	O	GLY	G1207	70.220	84.992	70.983	1.00 44.17	G
ATOM	17239	N	ALA	G1208	69.273	85.779	69.127	1.00 28.47	G
ATOM	17240	CA	ALA	G1208	68.241	84.781	69.232	1.00 28.47	G
ATOM	17241	CB	ALA	G1208	67.232	85.245	70.211	1.00 26.62	G
ATOM	17242	C	ALA	G1208	67.575	84.526	67.930	1.00 28.47	G
ATOM	17243	O	ALA	G1208	67.469	85.428	67.100	1.00 28.47	G
ATOM	17244	N	ASP	G1209	67.115	83.290	67.770	1.00 33.74	G
ATOM	17245	CA	ASP	G1209	66.413	82.851	66.569	1.00 33.74	G
ATOM	17246	CB	ASP	G1209	66.281	81.337	66.589	1.00 36.06	G
ATOM	17247	CG	ASP	G1209	65.528	80.813	65.407	1.00 36.06	G
ATOM	17248	OD1	ASP	G1209	64.535	81.450	64.995	1.00 36.06	G
ATOM	17249	OD2	ASP	G1209	65.925	79.752	64.893	1.00 36.06	G
ATOM	17250	C	ASP	G1209	65.025	83.489	66.564	1.00 33.74	G
ATOM	17251	O	ASP	G1209	64.034	82.849	66.908	1.00 33.74	G
ATOM	17252	N	LEU	G1210	64.957	84.749	66.166	1.00 27.97	G
ATOM	17253	CA	LEU	G1210	63.698	85.456	66.166	1.00 27.97	G
ATOM	17254	CB	LEU	G1210	63.733	86.593	65.148	1.00 71.63	G
ATOM	17255	CG	LEU	G1210	63.725	88.014	65.726	1.00 71.63	G
ATOM	17256	CD1	LEU	G1210	63.341	87.974	67.189	1.00 71.63	G
ATOM	17257	CD2	LEU	G1210	65.087	88.650	65.568	1.00 71.63	G
ATOM	17258	C	LEU	G1210	62.467	84.589	65.924	1.00 27.97	G
ATOM	17259	O	LEU	G1210	61.428	84.804	66.553	1.00 27.97	G
ATOM	17260	N	SER	G1211	62.587	83.600	65.038	1.00 50.15	G
ATOM	17261	CA	SER	G1211	61.463	82.729	64.687	1.00 50.15	G
ATOM	17262	CB	SER	G1211	61.739	81.997	63.371	1.00 85.49	G
ATOM	17263	OG	SER	G1211	62.585	80.879	63.572	1.00 85.49	G
ATOM	17264	C	SER	G1211	61.081	81.704	65.740	1.00 50.15	G
ATOM	17265	O	SER	G1211	59.975	81.159	65.708	1.00 50.15	G
ATOM	17266	N	MET	G1212	61.992	81.419	66.659	1.00 44.94	G

ATOM	17267	CA	MET	G1212	61.694	80.455	67.709	1.00	44.94	G
ATOM	17268	CB	MET	G1212	62.605	79.207	67.571	1.00	49.59	G
ATOM	17269	CG	MET	G1212	62.768	78.667	66.107	1.00	49.59	G
ATOM	17270	SD	MET	G1212	63.348	76.920	65.840	1.00	49.59	G
ATOM	17271	CE	MET	G1212	65.118	77.050	65.956	1.00	49.59	G
ATOM	17272	C	MET	G1212	61.868	81.154	69.071	1.00	44.94	G
ATOM	17273	O	MET	G1212	61.413	82.286	69.270	1.00	44.94	G
ATOM	17274	N	ALA	G1213	62.518	80.501	70.018	1.00	18.63	G
ATOM	17275	CA	ALA	G1213	62.704	81.123	71.319	1.00	18.63	G
ATOM	17276	CB	ALA	G1213	62.159	80.215	72.419	1.00	100.07	G
ATOM	17277	C	ALA	G1213	64.175	81.410	71.561	1.00	18.63	G
ATOM	17278	O	ALA	G1213	64.952	80.516	71.905	1.00	18.63	G
ATOM	17279	N	ARG	G1214	64.532	82.676	71.387	1.00	100.07	G
ATOM	17280	CA	ARG	G1214	65.886	83.174	71.571	1.00	100.07	G
ATOM	17281	CB	ARG	G1214	65.874	84.245	72.689	1.00	96.83	G
ATOM	17282	CG	ARG	G1214	64.918	83.980	73.836	1.00	96.83	G
ATOM	17283	CD	ARG	G1214	65.669	83.616	75.107	1.00	96.83	G
ATOM	17284	NE	ARG	G1214	64.794	83.045	76.135	1.00	96.83	G
ATOM	17285	CZ	ARG	G1214	65.209	82.606	77.326	1.00	96.83	G
ATOM	17286	NH1	ARG	G1214	66.493	82.670	77.657	1.00	96.83	G
ATOM	17287	NH2	ARG	G1214	64.340	82.095	78.193	1.00	96.83	G
ATOM	17288	C	ARG	G1214	67.050	82.177	71.779	1.00	100.07	G
ATOM	17289	O	ARG	G1214	67.524	81.989	72.895	1.00	100.07	G
ATOM	17290	N	PRO	G1215	67.487	81.485	70.711	1.00	95.14	G
ATOM	17291	CD	PRO	G1215	66.496	80.743	69.922	1.00	39.96	G
ATOM	17292	CA	PRO	G1215	68.597	80.571	70.969	1.00	95.14	G
ATOM	17293	CB	PRO	G1215	67.873	79.368	71.490	1.00	39.96	G
ATOM	17294	CG	PRO	G1215	66.709	79.289	70.452	1.00	39.96	G
ATOM	17295	C	PRO	G1215	69.412	80.224	69.702	1.00	95.14	G
ATOM	17296	O	PRO	G1215	70.292	79.373	69.759	1.00	95.14	G
ATOM	17297	N	VAL	G1216	69.106	80.867	68.571	1.00	37.25	G
ATOM	17298	CA	VAL	G1216	69.788	80.637	67.280	1.00	37.25	G
ATOM	17299	CB	VAL	G1216	70.776	81.754	66.959	1.00	17.32	G
ATOM	17300	CG1	VAL	G1216	71.369	81.542	65.578	1.00	17.32	G
ATOM	17301	CG2	VAL	G1216	70.090	83.084	67.070	1.00	17.32	G
ATOM	17302	C	VAL	G1216	70.570	79.336	67.125	1.00	37.25	G
ATOM	17303	O	VAL	G1216	71.705	79.236	67.583	1.00	37.25	G
ATOM	17304	N	SER	G1217	69.979	78.352	66.457	1.00	18.54	G
ATOM	17305	CA	SER	G1217	70.653	77.080	66.250	1.00	18.54	G
ATOM	17306	CB	SER	G1217	69.674	76.083	65.644	1.00	69.81	G
ATOM	17307	OG	SER	G1217	68.445	76.108	66.354	1.00	69.81	G
ATOM	17308	C	SER	G1217	71.772	77.398	65.282	1.00	18.54	G
ATOM	17309	O	SER	G1217	71.649	78.341	64.515	1.00	18.54	G
ATOM	17310	N	ILE	G1218	72.862	76.636	65.314	1.00	37.65	G
ATOM	17311	CA	ILE	G1218	73.990	76.900	64.416	1.00	37.65	G
ATOM	17312	CB	ILE	G1218	75.201	75.985	64.718	1.00	63.18	G
ATOM	17313	CG2	ILE	G1218	76.057	75.829	63.478	1.00	63.18	G
ATOM	17314	CG1	ILE	G1218	76.055	76.583	65.838	1.00	63.18	G
ATOM	17315	CD	ILE	G1218	75.343	76.684	67.168	1.00	63.18	G
ATOM	17316	C	ILE	G1218	73.625	76.725	62.956	1.00	37.65	G
ATOM	17317	O	ILE	G1218	72.914	75.795	62.609	1.00	37.65	G
ATOM	17318	N	GLY	G1219	74.131	77.621	62.111	1.00	63.41	G
ATOM	17319	CA	GLY	G1219	73.859	77.568	60.684	1.00	63.41	G
ATOM	17320	C	GLY	G1219	72.536	78.196	60.266	1.00	63.41	G
ATOM	17321	O	GLY	G1219	71.599	77.480	59.911	1.00	63.41	G
ATOM	17322	N	GLU	G1220	72.443	79.525	60.303	1.00	35.37	G
ATOM	17323	CA	GLU	G1220	71.211	80.209	59.910	1.00	35.37	G
ATOM	17324	CB	GLU	G1220	70.725	81.141	61.018	1.00	58.78	G
ATOM	17325	CG	GLU	G1220	69.742	80.465	61.973	1.00	58.78	G
ATOM	17326	CD	GLU	G1220	68.498	79.912	61.272	1.00	58.78	G
ATOM	17327	OE1	GLU	G1220	67.714	80.705	60.707	1.00	58.78	G
ATOM	17328	OE2	GLU	G1220	68.300	78.678	61.287	1.00	58.78	G
ATOM	17329	C	GLU	G1220	71.314	80.972	58.592	1.00	35.37	G
ATOM	17330	O	GLU	G1220	70.566	80.678	57.659	1.00	35.37	G
ATOM	17331	N	ALA	G1221	72.201	81.959	58.516	1.00	26.20	G
ATOM	17332	CA	ALA	G1221	72.396	82.709	57.275	1.00	26.20	G
ATOM	17333	CB	ALA	G1221	71.853	81.915	56.084	1.00	14.55	G
ATOM	17334	C	ALA	G1221	71.872	84.142	57.212	1.00	26.20	G
ATOM	17335	O	ALA	G1221	71.300	84.665	58.172	1.00	26.20	G
ATOM	17336	N	VAL	G1222	72.096	84.766	56.055	1.00	39.01	G
ATOM	17337	CA	VAL	G1222	71.698	86.142	55.805	1.00	39.01	G
ATOM	17338	CB	VAL	G1222	72.755	86.907	55.047	1.00	34.69	G
ATOM	17339	CG1	VAL	G1222	72.341	88.364	54.953	1.00	34.69	G
ATOM	17340	CG2	VAL	G1222	74.092	86.738	55.724	1.00	34.69	G
ATOM	17341	C	VAL	G1222	70.439	86.264	54.995	1.00	39.01	G
ATOM	17342	O	VAL	G1222	69.733	87.258	55.112	1.00	39.01	G
ATOM	17343	N	GLY	G1223	70.178	85.295	54.125	1.00	54.48	G
ATOM	17344	CA	GLY	G1223	68.943	85.363	53.379	1.00	54.48	G
ATOM	17345	C	GLY	G1223	67.868	85.614	54.434	1.00	54.48	G
ATOM	17346	O	GLY	G1223	66.905	86.344	54.184	1.00	54.48	G
ATOM	17347	N	VAL	G1224	68.069	85.022	55.623	1.00	15.36	G
ATOM	17348	CA	VAL	G1224	67.169	85.133	56.772	1.00	15.36	G
ATOM	17349	CB	VAL	G1224	67.580	84.247	57.928	1.00	38.19	G
ATOM	17350	CG1	VAL	G1224	66.351	83.797	58.693	1.00	38.19	G

ATOM	17519	CA	ASP	G1252	63.614	115.020	50.972	1.00100.07	G
ATOM	17520	CB	ASP	G1252	63.187	115.232	49.511	1.00 98.49	G
ATOM	17521	CG	ASP	G1252	61.773	115.784	49.391	1.00 98.49	G
ATOM	17522	OD1	ASP	G1252	60.841	115.135	49.907	1.00 98.49	G
ATOM	17523	OD2	ASP	G1252	61.587	116.858	48.781	1.00 98.49	G
ATOM	17524	C	ASP	G1252	64.328	113.668	51.118	1.00100.07	G
ATOM	17525	O	ASP	G1252	65.199	113.502	51.988	1.00100.07	G
ATOM	17526	N	ILE	G1253	63.951	112.715	50.260	1.00 63.35	G
ATOM	17527	CA	ILE	G1253	64.471	111.342	50.302	1.00 63.35	G
ATOM	17528	CB	ILE	G1253	66.015	111.296	50.414	1.00 69.32	G
ATOM	17529	CG2	ILE	G1253	66.506	109.894	50.108	1.00 69.32	G
ATOM	17530	CG1	ILE	G1253	66.657	112.260	49.415	1.00 69.32	G
ATOM	17531	CD	ILE	G1253	68.161	112.447	49.629	1.00 69.32	G
ATOM	17532	C	ILE	G1253	63.843	110.745	51.577	1.00 63.35	G
ATOM	17533	O	ILE	G1253	63.841	109.531	51.804	1.00 63.35	G
ATOM	17534	N	THR	G1254	63.308	111.656	52.392	1.00100.07	G
ATOM	17535	CA	THR	G1254	62.623	111.370	53.652	1.00100.07	G
ATOM	17536	CB	THR	G1254	61.901	112.668	54.176	1.00100.07	G
ATOM	17537	OG1	THR	G1254	61.475	112.489	55.534	1.00100.07	G
ATOM	17538	CG2	THR	G1254	60.677	113.003	53.303	1.00100.07	G
ATOM	17539	C	THR	G1254	61.589	110.305	53.314	1.00100.07	G
ATOM	17540	O	THR	G1254	61.221	109.464	54.137	1.00100.07	G
ATOM	17541	N	GLN	G1255	61.144	110.369	52.067	1.00100.07	G
ATOM	17542	CA	GLN	G1255	60.159	109.464	51.514	1.00100.07	G
ATOM	17543	CB	GLN	G1255	60.160	109.624	49.983	1.00100.07	G
ATOM	17544	CG	GLN	G1255	61.541	109.483	49.328	1.00100.07	G
ATOM	17545	CD	GLN	G1255	61.559	109.915	47.868	1.00100.07	G
ATOM	17546	OE1	GLN	G1255	60.690	109.536	47.084	1.00100.07	G
ATOM	17547	NE2	GLN	G1255	62.561	110.703	47.498	1.00100.07	G
ATOM	17548	C	GLN	G1255	60.344	107.991	51.914	1.00100.07	G
ATOM	17549	O	GLN	G1255	59.661	107.495	52.822	1.00100.07	G
ATOM	17550	N	GLY	G1256	61.263	107.294	51.248	1.00 57.81	G
ATOM	17551	CA	GLY	G1256	61.461	105.893	51.559	1.00 57.81	G
ATOM	17552	C	GLY	G1256	62.640	105.213	50.897	1.00 57.81	G
ATOM	17553	O	GLY	G1256	63.728	105.781	50.821	1.00 57.81	G
ATOM	17554	N	LEU	G1257	62.413	103.994	50.409	1.00 53.49	G
ATOM	17555	CA	LEU	G1257	63.470	103.203	49.787	1.00 53.49	G
ATOM	17556	CB	LEU	G1257	62.925	102.355	48.623	1.00 27.44	G
ATOM	17557	CG	LEU	G1257	63.865	101.244	48.117	1.00 27.44	G
ATOM	17558	CD1	LEU	G1257	64.133	100.245	49.226	1.00 27.44	G
ATOM	17559	CD2	LEU	G1257	63.249	100.531	46.936	1.00 27.44	G
ATOM	17560	C	LEU	G1257	64.623	104.076	49.304	1.00 53.49	G
ATOM	17561	O	LEU	G1257	65.759	103.926	49.776	1.00 53.49	G
ATOM	17562	N	PRO	G1258	64.342	105.020	48.381	1.00 35.93	G
ATOM	17563	CD	PRO	G1258	63.039	105.468	47.851	1.00 27.16	G
ATOM	17564	CA	PRO	G1258	65.415	105.880	47.884	1.00 35.93	G
ATOM	17565	CB	PRO	G1258	64.659	107.094	47.366	1.00 27.16	G
ATOM	17566	CG	PRO	G1258	63.456	106.447	46.740	1.00 27.16	G
ATOM	17567	C	PRO	G1258	66.397	106.203	48.992	1.00 35.93	G
ATOM	17568	O	PRO	G1258	67.605	106.172	48.783	1.00 35.93	G
ATOM	17569	N	ARG	G1259	65.882	106.487	50.178	1.00 22.20	G
ATOM	17570	CA	ARG	G1259	66.773	106.770	51.283	1.00 22.20	G
ATOM	17571	CB	ARG	G1259	66.076	107.525	52.418	1.00 50.93	G
ATOM	17572	CG	ARG	G1259	66.960	107.595	53.657	1.00 50.93	G
ATOM	17573	CD	ARG	G1259	66.802	108.878	54.434	1.00 50.93	G
ATOM	17574	NE	ARG	G1259	68.032	109.186	55.160	1.00 50.93	G
ATOM	17575	CZ	ARG	G1259	69.208	109.397	54.572	1.00 50.93	G
ATOM	17576	NH1	ARG	G1259	69.310	109.334	53.253	1.00 50.93	G
ATOM	17577	NH2	ARG	G1259	70.287	109.660	55.300	1.00 50.93	G
ATOM	17578	C	ARG	G1259	67.281	105.459	51.814	1.00 22.20	G
ATOM	17579	O	ARG	G1259	68.488	105.269	51.965	1.00 22.20	G
ATOM	17580	N	VAL	G1260	66.356	104.556	52.105	1.00 30.03	G
ATOM	17581	CA	VAL	G1260	66.739	103.261	52.621	1.00 30.03	G
ATOM	17582	CB	VAL	G1260	65.552	102.308	52.626	1.00 22.14	G
ATOM	17583	CG1	VAL	G1260	65.972	100.939	53.160	1.00 22.14	G
ATOM	17584	CG2	VAL	G1260	64.449	102.902	53.473	1.00 22.14	G
ATOM	17585	C	VAL	G1260	67.867	102.696	51.770	1.00 30.03	G
ATOM	17586	O	VAL	G1260	68.567	101.781	52.199	1.00 30.03	G
ATOM	17587	N	ILE	G1261	68.035	103.248	50.568	1.00 59.61	G
ATOM	17588	CA	ILE	G1261	69.109	102.847	49.658	1.00 59.61	G
ATOM	17589	CB	ILE	G1261	68.641	102.823	48.206	1.00 37.45	G
ATOM	17590	CG2	ILE	G1261	69.824	102.957	47.260	1.00 37.45	G
ATOM	17591	CG1	ILE	G1261	67.889	101.534	47.946	1.00 37.45	G
ATOM	17592	CD	ILE	G1261	67.453	101.408	46.518	1.00 37.45	G
ATOM	17593	C	ILE	G1261	70.271	103.835	49.771	1.00 59.61	G
ATOM	17594	O	ILE	G1261	71.405	103.436	50.060	1.00 59.61	G
ATOM	17595	N	GLU	G1262	69.981	105.119	49.531	1.00 24.23	G
ATOM	17596	CA	GLU	G1262	70.979	106.187	49.630	1.00 24.23	G
ATOM	17597	CB	GLU	G1262	70.273	107.548	49.727	1.00 18.19	G
ATOM	17598	CG	GLU	G1262	71.110	108.733	50.207	1.00 18.19	G
ATOM	17599	CD	GLU	G1262	70.370	110.076	50.099	1.00 18.19	G
ATOM	17600	OE1	GLU	G1262	70.249	110.591	48.973	1.00 18.19	G
ATOM	17601	OE2	GLU	G1262	69.909	110.624	51.123	1.00 18.19	G
ATOM	17602	C	GLU	G1262	71.745	105.861	50.896	1.00 24.23	G

ATOM	17603	O	GLU	G1262	72.924	106.178	51.041	1.00	24.23	G
ATOM	17604	N	LEU	G1263	71.051	105.199	51.810	1.00	51.86	G
ATOM	17605	CA	LEU	G1263	71.656	104.762	53.043	1.00	51.86	G
ATOM	17606	CB	LEU	G1263	70.586	104.248	53.993	1.00	43.95	G
ATOM	17607	CG	LEU	G1263	70.120	105.160	55.121	1.00	43.95	G
ATOM	17608	CD1	LEU	G1263	70.081	106.597	54.653	1.00	43.95	G
ATOM	17609	CD2	LEU	G1263	68.751	104.700	55.588	1.00	43.95	G
ATOM	17610	C	LEU	G1263	72.581	103.627	52.647	1.00	51.86	G
ATOM	17611	O	LEU	G1263	73.733	103.853	52.301	1.00	51.86	G
ATOM	17612	N	PHE	G1264	72.051	102.412	52.669	1.00	30.94	G
ATOM	17613	CA	PHE	G1264	72.799	101.212	52.328	1.00	30.94	G
ATOM	17614	CB	PHE	G1264	71.857	100.202	51.682	1.00	22.91	G
ATOM	17615	CG	PHE	G1264	71.003	99.453	52.673	1.00	22.91	G
ATOM	17616	CD1	PHE	G1264	69.687	99.104	52.355	1.00	22.91	G
ATOM	17617	CD2	PHE	G1264	71.533	99.043	53.907	1.00	22.91	G
ATOM	17618	CE1	PHE	G1264	68.911	98.359	53.238	1.00	22.91	G
ATOM	17619	CE2	PHE	G1264	70.771	98.295	54.800	1.00	22.91	G
ATOM	17620	CZ	PHE	G1264	69.457	97.951	54.464	1.00	22.91	G
ATOM	17621	C	PHE	G1264	74.023	101.427	51.447	1.00	30.94	G
ATOM	17622	O	PHE	G1264	75.155	101.350	51.929	1.00	30.94	G
ATOM	17623	N	GLU	G1265	73.806	101.701	50.161	1.00	56.36	G
ATOM	17624	CA	GLU	G1265	74.914	101.911	49.227	1.00	56.36	G
ATOM	17625	CB	GLU	G1265	74.377	102.148	47.823	1.00	100.07	G
ATOM	17626	CG	GLU	G1265	74.336	100.898	46.984	1.00	100.07	G
ATOM	17627	CD	GLU	G1265	73.406	101.032	45.798	1.00	100.07	G
ATOM	17628	OE1	GLU	G1265	73.260	102.161	45.280	1.00	100.07	G
ATOM	17629	OE2	GLU	G1265	72.827	100.009	45.377	1.00	100.07	G
ATOM	17630	C	GLU	G1265	75.846	103.044	49.631	1.00	56.36	G
ATOM	17631	O	GLU	G1265	76.828	103.322	48.954	1.00	56.36	G
ATOM	17632	N	ALA	G1266	75.524	103.696	50.739	1.00	76.49	G
ATOM	17633	CA	ALA	G1266	76.345	104.768	51.275	1.00	76.49	G
ATOM	17634	CB	ALA	G1266	77.629	104.191	51.827	1.00	8.17	G
ATOM	17635	C	ALA	G1266	76.677	105.852	50.285	1.00	76.49	G
ATOM	17636	O	ALA	G1266	77.758	105.862	49.712	1.00	76.49	G
ATOM	17637	N	ARG	G1267	75.758	106.776	50.088	1.00	83.66	G
ATOM	17638	CA	ARG	G1267	76.008	107.865	49.166	1.00	83.66	G
ATOM	17639	CB	ARG	G1267	75.024	107.815	47.998	1.00	100.07	G
ATOM	17640	CG	ARG	G1267	75.647	107.294	46.728	1.00	100.07	G
ATOM	17641	CD	ARG	G1267	76.892	108.105	46.433	1.00	100.07	G
ATOM	17642	NE	ARG	G1267	77.691	107.543	45.356	1.00	100.07	G
ATOM	17643	CZ	ARG	G1267	78.834	108.072	44.943	1.00	100.07	G
ATOM	17644	NH1	ARG	G1267	79.298	109.170	45.528	1.00	100.07	G
ATOM	17645	NH2	ARG	G1267	79.504	107.512	43.942	1.00	100.07	G
ATOM	17646	C	ARG	G1267	75.852	109.166	49.912	1.00	83.66	G
ATOM	17647	O	ARG	G1267	75.187	109.203	50.944	1.00	83.66	G
ATOM	17648	N	ARG	G1268	76.480	110.230	49.424	1.00	24.69	G
ATOM	17649	CA	ARG	G1268	76.322	111.503	50.098	1.00	24.69	G
ATOM	17650	CB	ARG	G1268	77.654	112.262	50.246	1.00	100.07	G
ATOM	17651	CG	ARG	G1268	78.353	112.751	48.990	1.00	100.07	G
ATOM	17652	CD	ARG	G1268	79.276	113.917	49.370	1.00	100.07	G
ATOM	17653	NE	ARG	G1268	80.157	114.349	48.283	1.00	100.07	G
ATOM	17654	CZ	ARG	G1268	80.827	115.502	48.264	1.00	100.07	G
ATOM	17655	NH1	ARG	G1268	80.719	116.356	49.278	1.00	100.07	G
ATOM	17656	NH2	ARG	G1268	81.611	115.804	47.232	1.00	100.07	G
ATOM	17657	C	ARG	G1268	75.326	112.281	49.281	1.00	24.69	G
ATOM	17658	O	ARG	G1268	75.683	112.949	48.315	1.00	24.69	G
ATOM	17659	N	PRO	G1269	74.050	112.190	49.665	1.00	49.29	G
ATOM	17660	CD	PRO	G1269	73.791	111.657	51.006	1.00	23.60	G
ATOM	17661	CA	PRO	G1269	72.830	112.789	49.112	1.00	49.29	G
ATOM	17662	CB	PRO	G1269	71.790	112.506	50.184	1.00	23.60	G
ATOM	17663	CG	PRO	G1269	72.606	112.447	51.425	1.00	23.60	G
ATOM	17664	C	PRO	G1269	72.866	114.260	48.759	1.00	49.29	G
ATOM	17665	O	PRO	G1269	73.908	114.817	48.429	1.00	49.29	G
ATOM	17666	N	LYS	G1270	71.697	114.883	48.827	1.00	100.07	G
ATOM	17667	CA	LYS	G1270	71.582	116.295	48.522	1.00	100.07	G
ATOM	17668	CB	LYS	G1270	70.185	116.602	47.967	1.00	100.07	G
ATOM	17669	CG	LYS	G1270	69.039	116.478	48.976	1.00	100.07	G
ATOM	17670	CD	LYS	G1270	67.815	117.256	48.498	1.00	100.07	G
ATOM	17671	CE	LYS	G1270	66.819	117.490	49.627	1.00	100.07	G
ATOM	17672	NZ	LYS	G1270	65.675	118.364	49.234	1.00	100.07	G
ATOM	17673	C	LYS	G1270	71.826	117.108	49.791	1.00	100.07	G
ATOM	17674	O	LYS	G1270	72.729	117.952	49.849	1.00	100.07	G
ATOM	17675	N	ALA	G1271	71.012	116.829	50.803	1.00	43.78	G
ATOM	17676	CA	ALA	G1271	71.089	117.511	52.080	1.00	43.78	G
ATOM	17677	CB	ALA	G1271	70.400	116.671	53.140	1.00	83.00	G
ATOM	17678	C	ALA	G1271	72.513	117.834	52.523	1.00	43.78	G
ATOM	17679	O	ALA	G1271	72.932	118.991	52.493	1.00	43.78	G
ATOM	17680	N	LYS	G1272	73.242	116.795	52.921	1.00	68.73	G
ATOM	17681	CA	LYS	G1272	74.609	116.905	53.427	1.00	68.73	G
ATOM	17682	CB	LYS	G1272	75.471	117.842	52.567	1.00	68.65	G
ATOM	17683	CG	LYS	G1272	76.845	118.114	53.189	1.00	68.65	G
ATOM	17684	CD	LYS	G1272	77.969	118.305	52.168	1.00	68.65	G
ATOM	17685	CE	LYS	G1272	79.301	118.551	52.880	1.00	68.65	G
ATOM	17686	NZ	LYS	G1272	80.464	118.598	51.962	1.00	68.65	G

ATOM	17687	C	LYS	G1272	74.538	117.412	54.866	1.00	68.73	G
ATOM	17688	O	LYS	G1272	75.182	116.878	55.766	1.00	68.73	G
ATOM	17689	N	ALA	G1273	73.743	118.446	55.084	1.00	53.93	G
ATOM	17690	CA	ALA	G1273	73.567	118.988	56.421	1.00	53.93	G
ATOM	17691	CB	ALA	G1273	72.907	117.937	57.313	1.00	55.89	G
ATOM	17692	C	ALA	G1273	74.839	119.498	57.080	1.00	53.93	G
ATOM	17693	O	ALA	G1273	74.796	120.023	58.191	1.00	53.93	G
ATOM	17694	N	VAL	G1274	75.971	119.351	56.406	1.00	48.02	G
ATOM	17695	CA	VAL	G1274	77.231	119.811	56.971	1.00	48.02	G
ATOM	17696	CB	VAL	G1274	77.241	121.332	57.210	1.00	44.30	G
ATOM	17697	CG1	VAL	G1274	78.657	121.790	57.466	1.00	44.30	G
ATOM	17698	CG2	VAL	G1274	76.642	122.067	56.034	1.00	44.30	G
ATOM	17699	C	VAL	G1274	77.483	119.161	58.325	1.00	48.02	G
ATOM	17700	O	VAL	G1274	76.626	119.167	59.201	1.00	48.02	G
ATOM	17701	N	ILE	G1275	78.668	118.598	58.491	1.00	41.38	G
ATOM	17702	CA	ILE	G1275	79.037	117.968	59.740	1.00	41.38	G
ATOM	17703	CB	ILE	G1275	79.524	116.539	59.502	1.00	81.15	G
ATOM	17704	CG2	ILE	G1275	79.986	115.940	60.799	1.00	81.15	G
ATOM	17705	CG1	ILE	G1275	78.410	115.696	58.889	1.00	81.15	G
ATOM	17706	CD	ILE	G1275	77.225	115.484	59.807	1.00	81.15	G
ATOM	17707	C	ILE	G1275	80.212	118.799	60.209	1.00	41.38	G
ATOM	17708	O	ILE	G1275	81.298	118.664	59.655	1.00	41.38	G
ATOM	17709	N	SER	G1276	80.011	119.677	61.187	1.00	34.20	G
ATOM	17710	CA	SER	G1276	81.112	120.507	61.688	1.00	34.20	G
ATOM	17711	CB	SER	G1276	80.617	121.471	62.774	1.00	55.01	G
ATOM	17712	OG	SER	G1276	81.651	121.812	63.696	1.00	55.01	G
ATOM	17713	C	SER	G1276	82.234	119.660	62.262	1.00	34.20	G
ATOM	17714	O	SER	G1276	82.028	118.913	63.214	1.00	34.20	G
ATOM	17715	N	GLU	G1277	83.420	119.770	61.679	1.00	75.63	G
ATOM	17716	CA	GLU	G1277	84.563	119.020	62.171	1.00	75.63	G
ATOM	17717	CB	GLU	G1277	85.671	119.009	61.112	1.00	100.07	G
ATOM	17718	CG	GLU	G1277	86.050	120.391	60.585	1.00	100.07	G
ATOM	17719	CD	GLU	G1277	86.366	120.401	59.092	1.00	100.07	G
ATOM	17720	OE1	GLU	G1277	87.192	119.580	58.640	1.00	100.07	G
ATOM	17721	OE2	GLU	G1277	85.787	121.240	58.368	1.00	100.07	G
ATOM	17722	C	GLU	G1277	85.004	119.756	63.428	1.00	75.63	G
ATOM	17723	O	GLU	G1277	84.208	120.490	64.010	1.00	75.63	G
ATOM	17724	N	ILE	G1278	86.248	119.555	63.852	1.00	80.74	G
ATOM	17725	CA	ILE	G1278	86.799	120.233	65.029	1.00	80.74	G
ATOM	17726	CB	ILE	G1278	87.774	121.374	64.593	1.00	100.07	G
ATOM	17727	CG2	ILE	G1278	87.691	122.567	65.531	1.00	100.07	G
ATOM	17728	CG1	ILE	G1278	89.207	120.840	64.563	1.00	100.07	G
ATOM	17729	CD	ILE	G1278	89.737	120.376	65.917	1.00	100.07	G
ATOM	17730	C	ILE	G1278	85.789	120.801	66.027	1.00	80.74	G
ATOM	17731	O	ILE	G1278	85.222	121.879	65.821	1.00	80.74	G
ATOM	17732	N	ASP	G1279	85.566	120.063	67.111	1.00	50.25	G
ATOM	17733	CA	ASP	G1279	84.661	120.500	68.161	1.00	50.25	G
ATOM	17734	CB	ASP	G1279	84.793	119.589	69.393	1.00	100.07	G
ATOM	17735	CG	ASP	G1279	86.244	119.201	69.706	1.00	100.07	G
ATOM	17736	OD1	ASP	G1279	86.902	118.563	68.857	1.00	100.07	G
ATOM	17737	OD2	ASP	G1279	86.727	119.521	70.814	1.00	100.07	G
ATOM	17738	C	ASP	G1279	85.070	121.921	68.504	1.00	50.25	G
ATOM	17739	O	ASP	G1279	86.254	122.248	68.481	1.00	50.25	G
ATOM	17740	N	GLY	G1280	84.095	122.768	68.809	1.00	29.41	G
ATOM	17741	CA	GLY	G1280	84.411	124.150	69.124	1.00	29.41	G
ATOM	17742	C	GLY	G1280	83.245	125.071	69.430	1.00	29.41	G
ATOM	17743	O	GLY	G1280	82.083	124.664	69.495	1.00	29.41	G
ATOM	17744	N	VAL	G1281	83.565	126.348	69.558	1.00	28.20	G
ATOM	17745	CA	VAL	G1281	82.578	127.347	69.940	1.00	28.20	G
ATOM	17746	CB	VAL	G1281	83.286	128.529	70.655	1.00	100.07	G
ATOM	17747	CG1	VAL	G1281	82.279	129.348	71.464	1.00	100.07	G
ATOM	17748	CG2	VAL	G1281	84.398	127.998	71.559	1.00	100.07	G
ATOM	17749	C	VAL	G1281	81.600	127.946	68.937	1.00	28.20	G
ATOM	17750	O	VAL	G1281	81.725	127.792	67.721	1.00	28.20	G
ATOM	17751	N	VAL	G1282	80.623	128.637	69.519	1.00	99.55	G
ATOM	17752	CA	VAL	G1282	79.558	129.357	68.837	1.00	99.55	G
ATOM	17753	CB	VAL	G1282	78.833	130.306	69.823	1.00	100.07	G
ATOM	17754	CG1	VAL	G1282	77.705	131.022	69.126	1.00	100.07	G
ATOM	17755	CG2	VAL	G1282	78.352	129.552	71.042	1.00	100.07	G
ATOM	17756	C	VAL	G1282	80.169	130.251	67.773	1.00	99.55	G
ATOM	17757	O	VAL	G1282	81.364	130.548	67.821	1.00	99.55	G
ATOM	17758	N	ARG	G1283	79.336	130.697	66.834	1.00	95.80	G
ATOM	17759	CA	ARG	G1283	79.772	131.602	65.776	1.00	95.80	G
ATOM	17760	CB	ARG	G1283	81.100	131.146	65.181	1.00	100.07	G
ATOM	17761	CG	ARG	G1283	81.705	132.158	64.223	1.00	100.07	G
ATOM	17762	CD	ARG	G1283	82.261	133.375	64.952	1.00	100.07	G
ATOM	17763	NE	ARG	G1283	82.248	134.560	64.099	1.00	100.07	G
ATOM	17764	CZ	ARG	G1283	82.765	135.735	64.437	1.00	100.07	G
ATOM	17765	NH1	ARG	G1283	83.350	135.887	65.615	1.00	100.07	G
ATOM	17766	NH2	ARG	G1283	82.674	136.766	63.607	1.00	100.07	G
ATOM	17767	C	ARG	G1283	78.761	131.737	64.650	1.00	95.80	G
ATOM	17768	O	ARG	G1283	78.414	130.758	64.001	1.00	95.80	G
ATOM	17769	N	ILE	G1284	78.294	132.956	64.416	1.00	75.14	G
ATOM	17770	CA	ILE	G1284	77.341	133.201	63.350	1.00	75.14	G

ATOM	17771	CB	ILE	G1284	75.881	133.046	63.820	1.00100.07	G
ATOM	17772	CG2	ILE	G1284	74.950	133.883	62.950	1.00100.07	G
ATOM	17773	CG1	ILE	G1284	75.469	131.578	63.743	1.00100.07	G
ATOM	17774	CD	ILE	G1284	75.536	130.996	62.347	1.00100.07	G
ATOM	17775	C	ILE	G1284	77.502	134.586	62.779	1.00 75.14	G
ATOM	17776	O	ILE	G1284	77.191	135.579	63.431	1.00 75.14	G
ATOM	17777	N	GLU	G1285	78.001	134.644	61.553	1.00 40.73	G
ATOM	17778	CA	GLU	G1285	78.181	135.906	60.854	1.00 40.73	G
ATOM	17779	CB	GLU	G1285	79.617	136.012	60.315	1.00100.07	G
ATOM	17780	CG	GLU	G1285	80.662	136.183	61.431	1.00100.07	G
ATOM	17781	CD	GLU	G1285	82.099	135.879	60.996	1.00100.07	G
ATOM	17782	OE1	GLU	G1285	82.378	134.724	60.594	1.00100.07	G
ATOM	17783	OE2	GLU	G1285	82.956	136.792	61.068	1.00100.07	G
ATOM	17784	C	GLU	G1285	77.142	135.912	59.732	1.00 40.73	G
ATOM	17785	O	GLU	G1285	77.423	135.565	58.582	1.00 40.73	G
ATOM	17786	N	GLU	G1286	75.918	136.268	60.111	1.00 72.48	G
ATOM	17787	CA	GLU	G1286	74.801	136.337	59.183	1.00 72.48	G
ATOM	17788	CB	GLU	G1286	73.624	137.068	59.855	1.00100.07	G
ATOM	17789	CG	GLU	G1286	74.021	138.284	60.723	1.00100.07	G
ATOM	17790	CD	GLU	G1286	72.921	138.731	61.706	1.00100.07	G
ATOM	17791	OE1	GLU	G1286	72.594	137.961	62.643	1.00100.07	G
ATOM	17792	OE2	GLU	G1286	72.389	139.856	61.546	1.00100.07	G
ATOM	17793	C	GLU	G1286	75.221	137.033	57.887	1.00 72.48	G
ATOM	17794	O	GLU	G1286	75.229	138.260	57.801	1.00 72.48	G
ATOM	17795	N	GLY	G1287	75.572	136.234	56.882	1.00100.07	G
ATOM	17796	CA	GLY	G1287	76.005	136.782	55.607	1.00100.07	G
ATOM	17797	C	GLY	G1287	74.900	137.130	54.623	1.00100.07	G
ATOM	17798	O	GLY	G1287	73.990	136.331	54.371	1.00100.07	G
ATOM	17799	N	GLU	G1288	74.988	138.339	54.070	1.00 62.85	G
ATOM	17800	CA	GLU	G1288	74.024	138.833	53.091	1.00 62.85	G
ATOM	17801	CB	GLU	G1288	74.597	140.071	52.387	1.00100.07	G
ATOM	17802	CG	GLU	G1288	73.572	140.978	51.716	1.00100.07	G
ATOM	17803	CD	GLU	G1288	74.208	142.196	51.044	1.00100.07	G
ATOM	17804	OE1	GLU	G1288	74.930	142.957	51.730	1.00100.07	G
ATOM	17805	OE2	GLU	G1288	73.981	142.398	49.828	1.00100.07	G
ATOM	17806	C	GLU	G1288	73.854	137.689	52.104	1.00 62.85	G
ATOM	17807	O	GLU	G1288	72.745	137.364	51.680	1.00 62.85	G
ATOM	17808	N	ASP	G1289	74.983	137.079	51.762	1.00100.07	G
ATOM	17809	CA	ASP	G1289	75.033	135.943	50.856	1.00100.07	G
ATOM	17810	CB	ASP	G1289	75.128	136.405	49.393	1.00 99.99	G
ATOM	17811	CG	ASP	G1289	73.829	136.182	48.615	1.00 99.99	G
ATOM	17812	OD1	ASP	G1289	73.307	135.045	48.625	1.00 99.99	G
ATOM	17813	OD2	ASP	G1289	73.337	137.143	47.982	1.00 99.99	G
ATOM	17814	C	ASP	G1289	76.261	135.110	51.229	1.00100.07	G
ATOM	17815	O	ASP	G1289	76.970	134.598	50.361	1.00100.07	G
ATOM	17816	N	ARG	G1290	76.507	134.997	52.533	1.00100.07	G
ATOM	17817	CA	ARG	G1290	77.631	134.224	53.071	1.00100.07	G
ATOM	17818	CB	ARG	G1290	78.925	135.049	53.080	1.00 81.73	G
ATOM	17819	CG	ARG	G1290	79.630	135.222	51.734	1.00 81.73	G
ATOM	17820	CD	ARG	G1290	80.884	136.076	51.923	1.00 81.73	G
ATOM	17821	NE	ARG	G1290	81.784	136.084	50.773	1.00 81.73	G
ATOM	17822	CZ	ARG	G1290	83.000	136.628	50.786	1.00 81.73	G
ATOM	17823	NH1	ARG	G1290	83.461	137.207	51.892	1.00 81.73	G
ATOM	17824	NH2	ARG	G1290	83.759	136.592	49.698	1.00 81.73	G
ATOM	17825	C	ARG	G1290	77.317	133.820	54.505	1.00100.07	G
ATOM	17826	O	ARG	G1290	78.072	134.164	55.415	1.00100.07	G
ATOM	17827	N	LEU	G1291	76.214	133.097	54.708	1.00 44.00	G
ATOM	17828	CA	LEU	G1291	75.819	132.677	56.054	1.00 44.00	G
ATOM	17829	CB	LEU	G1291	74.773	131.572	55.974	1.00 99.56	G
ATOM	17830	CG	LEU	G1291	73.511	132.008	55.239	1.00 99.56	G
ATOM	17831	CD1	LEU	G1291	72.437	130.962	55.448	1.00 99.56	G
ATOM	17832	CD2	LEU	G1291	73.038	133.365	55.757	1.00 99.56	G
ATOM	17833	C	LEU	G1291	77.018	132.194	56.851	1.00 44.00	G
ATOM	17834	O	LEU	G1291	77.280	132.651	57.972	1.00 44.00	G
ATOM	17835	N	SER	G1292	77.746	131.271	56.235	1.00 86.01	G
ATOM	17836	CA	SER	G1292	78.943	130.689	56.814	1.00 86.01	G
ATOM	17837	CB	SER	G1292	80.190	131.428	56.300	1.00 96.71	G
ATOM	17838	OG	SER	G1292	80.112	132.828	56.516	1.00 96.71	G
ATOM	17839	C	SER	G1292	78.963	130.641	58.334	1.00 86.01	G
ATOM	17840	O	SER	G1292	79.161	131.654	59.003	1.00 86.01	G
ATOM	17841	N	VAL	G1293	78.732	129.447	58.864	1.00 46.26	G
ATOM	17842	CA	VAL	G1293	78.768	129.198	60.297	1.00 46.26	G
ATOM	17843	CB	VAL	G1293	77.926	127.963	60.647	1.00 8.45	G
ATOM	17844	CG1	VAL	G1293	78.108	127.592	62.077	1.00 8.45	G
ATOM	17845	CG2	VAL	G1293	76.487	128.252	60.385	1.00 8.45	G
ATOM	17846	C	VAL	G1293	80.248	128.921	60.566	1.00 46.26	G
ATOM	17847	O	VAL	G1293	80.801	127.941	60.060	1.00 46.26	G
ATOM	17848	N	ALA	G1294	80.890	129.788	61.344	1.00 96.50	G
ATOM	17849	CA	ALA	G1294	82.315	129.644	61.616	1.00 96.50	G
ATOM	17850	CB	ALA	G1294	82.996	131.020	61.459	1.00 25.75	G
ATOM	17851	C	ALA	G1294	82.700	129.008	62.959	1.00 96.50	G
ATOM	17852	O	ALA	G1294	83.024	129.713	63.905	1.00 96.50	G
ATOM	17853	N	VAL	G1295	82.688	127.677	63.034	1.00 37.72	G
ATOM	17854	CA	VAL	G1295	83.057	126.954	64.262	1.00 37.72	G

ATOM	18023	O	LYS	G1315	77.932	124.109	72.260	1.00	33.32	G
ATOM	18024	N	ALA	G1316	78.173	124.852	70.146	1.00	73.20	G
ATOM	18025	CA	ALA	G1316	78.090	123.532	69.542	1.00	73.20	G
ATOM	18026	CB	ALA	G1316	77.795	123.643	68.045	1.00	52.73	G
ATOM	18027	C	ALA	G1316	79.404	122.817	69.752	1.00	73.20	G
ATOM	18028	O	ALA	G1316	80.012	122.357	68.787	1.00	73.20	G
ATOM	18029	N	GLY	G1317	79.846	122.747	71.009	1.00	51.24	G
ATOM	18030	CA	GLY	G1317	81.085	122.063	71.309	1.00	51.24	G
ATOM	18031	C	GLY	G1317	81.131	120.911	70.332	1.00	51.24	G
ATOM	18032	O	GLY	G1317	82.045	120.810	69.511	1.00	51.24	G
ATOM	18033	N	ALA	G1318	80.098	120.074	70.397	1.00	73.77	G
ATOM	18034	CA	ALA	G1318	79.958	118.920	69.521	1.00	73.77	G
ATOM	18035	CB	ALA	G1318	78.974	119.239	68.427	1.00	96.53	G
ATOM	18036	C	ALA	G1318	81.277	118.476	68.913	1.00	73.77	G
ATOM	18037	O	ALA	G1318	82.324	118.576	69.531	1.00	73.77	G
ATOM	18038	N	TYR	G1319	81.213	117.980	67.688	1.00	71.56	G
ATOM	18039	CA	TYR	G1319	82.381	117.496	66.965	1.00	71.56	G
ATOM	18040	CB	TYR	G1319	83.007	116.304	67.700	1.00	100.07	G
ATOM	18041	CG	TYR	G1319	82.040	115.608	68.634	1.00	100.07	G
ATOM	18042	CD1	TYR	G1319	80.958	114.883	68.142	1.00	100.07	G
ATOM	18043	CE1	TYR	G1319	80.014	114.318	69.006	1.00	100.07	G
ATOM	18044	CD2	TYR	G1319	82.160	115.747	70.016	1.00	100.07	G
ATOM	18045	CE2	TYR	G1319	81.225	115.193	70.884	1.00	100.07	G
ATOM	18046	CZ	TYR	G1319	80.156	114.483	70.375	1.00	100.07	G
ATOM	18047	OH	TYR	G1319	79.226	113.951	71.239	1.00	100.07	G
ATOM	18048	C	TYR	G1319	81.820	117.049	65.634	1.00	71.56	G
ATOM	18049	O	TYR	G1319	82.557	116.701	64.716	1.00	71.56	G
ATOM	18050	N	VAL	G1320	80.490	117.080	65.560	1.00	13.09	G
ATOM	18051	CA	VAL	G1320	79.735	116.682	64.381	1.00	13.09	G
ATOM	18052	CB	VAL	G1320	79.529	115.155	64.358	1.00	52.26	G
ATOM	18053	CG1	VAL	G1320	78.414	114.791	63.391	1.00	52.26	G
ATOM	18054	CG2	VAL	G1320	80.829	114.461	63.965	1.00	52.26	G
ATOM	18055	C	VAL	G1320	78.362	117.343	64.385	1.00	13.09	G
ATOM	18056	O	VAL	G1320	77.978	118.014	63.430	1.00	13.09	G
ATOM	18057	N	GLU	G1321	77.634	117.132	65.475	1.00	17.84	G
ATOM	18058	CA	GLU	G1321	76.283	117.666	65.655	1.00	17.84	G
ATOM	18059	CB	GLU	G1321	76.241	118.670	66.809	1.00	99.95	G
ATOM	18060	CG	GLU	G1321	75.968	118.063	68.170	1.00	99.95	G
ATOM	18061	CD	GLU	G1321	75.555	119.110	69.192	1.00	99.95	G
ATOM	18062	OE1	GLU	G1321	75.370	118.751	70.376	1.00	99.95	G
ATOM	18063	OE2	GLU	G1321	75.410	120.292	68.805	1.00	99.95	G
ATOM	18064	C	GLU	G1321	75.647	118.317	64.443	1.00	17.84	G
ATOM	18065	O	GLU	G1321	75.143	119.426	64.542	1.00	17.84	G
ATOM	18066	N	ALA	G1322	75.647	117.627	63.314	1.00	15.61	G
ATOM	18067	CA	ALA	G1322	75.050	118.196	62.121	1.00	15.61	G
ATOM	18068	CB	ALA	G1322	73.527	118.012	62.167	1.00	41.99	G
ATOM	18069	C	ALA	G1322	75.394	119.685	62.050	1.00	15.61	G
ATOM	18070	O	ALA	G1322	74.731	120.492	62.698	1.00	15.61	G
ATOM	18071	N	GLY	G1323	76.430	120.026	61.274	1.00	62.42	G
ATOM	18072	CA	GLY	G1323	76.886	121.408	61.100	1.00	62.42	G
ATOM	18073	C	GLY	G1323	75.957	122.450	61.687	1.00	62.42	G
ATOM	18074	O	GLY	G1323	76.387	123.412	62.326	1.00	62.42	G
ATOM	18075	N	GLN	G1324	74.677	122.232	61.414	1.00	62.08	G
ATOM	18076	CA	GLN	G1324	73.539	123.004	61.884	1.00	62.08	G
ATOM	18077	CB	GLN	G1324	73.959	124.132	62.837	1.00	56.92	G
ATOM	18078	CG	GLN	G1324	73.590	123.779	64.298	1.00	56.92	G
ATOM	18079	CD	GLN	G1324	74.378	124.546	65.347	1.00	56.92	G
ATOM	18080	OE1	GLN	G1324	75.604	124.417	65.454	1.00	56.92	G
ATOM	18081	NE2	GLN	G1324	73.674	125.341	66.136	1.00	56.92	G
ATOM	18082	C	GLN	G1324	72.522	123.486	60.859	1.00	62.08	G
ATOM	18083	O	GLN	G1324	72.041	124.613	60.912	1.00	62.08	G
ATOM	18084	N	PRO	G1325	72.228	122.631	59.869	1.00	41.29	G
ATOM	18085	CD	PRO	G1325	73.319	121.846	59.279	1.00	22.02	G
ATOM	18086	CA	PRO	G1325	71.245	122.911	58.823	1.00	41.29	G
ATOM	18087	CB	PRO	G1325	72.033	122.688	57.520	1.00	22.02	G
ATOM	18088	CG	PRO	G1325	73.475	122.538	57.956	1.00	22.02	G
ATOM	18089	C	PRO	G1325	70.180	121.816	59.078	1.00	41.29	G
ATOM	18090	O	PRO	G1325	70.499	120.613	59.113	1.00	41.29	G
ATOM	18091	N	LEU	G1326	68.936	122.232	59.310	1.00	78.13	G
ATOM	18092	CA	LEU	G1326	67.842	121.290	59.574	1.00	78.13	G
ATOM	18093	CB	LEU	G1326	66.485	122.012	59.529	1.00	100.07	G
ATOM	18094	CG	LEU	G1326	65.155	121.240	59.567	1.00	100.07	G
ATOM	18095	CD1	LEU	G1326	65.144	120.207	60.682	1.00	100.07	G
ATOM	18096	CD2	LEU	G1326	64.021	122.239	59.758	1.00	100.07	G
ATOM	18097	C	LEU	G1326	67.892	120.199	58.527	1.00	78.13	G
ATOM	18098	O	LEU	G1326	67.145	119.225	58.585	1.00	78.13	G
ATOM	18099	N	THR	G1327	68.785	120.400	57.564	1.00	68.34	G
ATOM	18100	CA	THR	G1327	69.028	119.476	56.472	1.00	68.34	G
ATOM	18101	CB	THR	G1327	70.271	119.898	55.704	1.00	100.07	G
ATOM	18102	OG1	THR	G1327	71.297	120.218	56.648	1.00	100.07	G
ATOM	18103	CG2	THR	G1327	69.984	121.123	54.833	1.00	100.07	G
ATOM	18104	C	THR	G1327	69.262	118.099	57.071	1.00	68.34	G
ATOM	18105	O	THR	G1327	68.832	117.087	56.523	1.00	68.34	G
ATOM	18106	N	ARG	G1328	69.957	118.069	58.199	1.00	70.92	G

ATOM	18107	CA	ARG	G1328	70.220	116.820	58.898	1.00	70.92	G
ATOM	18108	CB	ARG	G1328	69.021	116.482	59.808	1.00	84.36	G
ATOM	18109	CG	ARG	G1328	67.786	115.908	59.081	1.00	84.36	G
ATOM	18110	CD	ARG	G1328	66.631	115.629	60.051	1.00	84.36	G
ATOM	18111	NE	ARG	G1328	65.625	114.726	59.489	1.00	84.36	G
ATOM	18112	CZ	ARG	G1328	64.893	114.987	58.411	1.00	84.36	G
ATOM	18113	NH1	ARG	G1328	65.042	116.131	57.759	1.00	84.36	G
ATOM	18114	NH2	ARG	G1328	64.008	114.100	57.984	1.00	84.36	G
ATOM	18115	C	ARG	G1328	70.547	115.602	58.012	1.00	70.92	G
ATOM	18116	O	ARG	G1328	70.637	114.482	58.515	1.00	70.92	G
ATOM	18117	N	GLY	G1329	70.730	115.801	56.710	1.00	33.72	G
ATOM	18118	CA	GLY	G1329	71.043	114.671	55.854	1.00	33.72	G
ATOM	18119	C	GLY	G1329	72.463	114.175	56.087	1.00	33.72	G
ATOM	18120	O	GLY	G1329	73.117	113.727	55.139	1.00	33.72	G
ATOM	18121	N	ALA	G1330	72.924	114.236	57.346	1.00	27.80	G
ATOM	18122	CA	ALA	G1330	74.284	113.842	57.736	1.00	27.80	G
ATOM	18123	CB	ALA	G1330	74.262	112.929	58.944	1.00	5.07	G
ATOM	18124	C	ALA	G1330	75.018	113.183	56.597	1.00	27.80	G
ATOM	18125	O	ALA	G1330	74.900	111.988	56.377	1.00	27.80	G
ATOM	18126	N	ILE	G1331	75.750	114.008	55.861	1.00	29.75	G
ATOM	18127	CA	ILE	G1331	76.541	113.598	54.703	1.00	29.75	G
ATOM	18128	CB	ILE	G1331	77.830	114.501	54.562	1.00	54.85	G
ATOM	18129	CG2	ILE	G1331	78.054	114.894	53.093	1.00	54.85	G
ATOM	18130	CG1	ILE	G1331	77.698	115.755	55.450	1.00	54.85	G
ATOM	18131	CD	ILE	G1331	78.843	116.748	55.367	1.00	54.85	G
ATOM	18132	C	ILE	G1331	76.952	112.146	54.862	1.00	29.75	G
ATOM	18133	O	ILE	G1331	76.834	111.347	53.947	1.00	29.75	G
ATOM	18134	N	ASP	G1332	77.456	111.827	56.045	1.00	18.86	G
ATOM	18135	CA	ASP	G1332	77.909	110.488	56.389	1.00	18.86	G
ATOM	18136	CB	ASP	G1332	76.732	109.563	56.673	1.00	100.07	G
ATOM	18137	CG	ASP	G1332	75.896	109.281	55.436	1.00	100.07	G
ATOM	18138	OD1	ASP	G1332	74.849	109.937	55.259	1.00	100.07	G
ATOM	18139	OD2	ASP	G1332	76.287	108.409	54.634	1.00	100.07	G
ATOM	18140	C	ASP	G1332	78.727	109.835	55.327	1.00	18.86	G
ATOM	18141	O	ASP	G1332	78.968	108.637	55.409	1.00	18.86	G
ATOM	18142	N	PRO	G1333	79.192	110.603	54.331	1.00	100.02	G
ATOM	18143	CD	PRO	G1333	79.535	112.031	54.328	1.00	54.66	G
ATOM	18144	CA	PRO	G1333	79.972	109.937	53.304	1.00	100.02	G
ATOM	18145	CB	PRO	G1333	79.972	110.952	52.163	1.00	54.66	G
ATOM	18146	CG	PRO	G1333	79.686	112.319	52.852	1.00	54.66	G
ATOM	18147	C	PRO	G1333	81.349	109.708	53.858	1.00	100.02	G
ATOM	18148	O	PRO	G1333	82.298	110.383	53.465	1.00	100.02	G
ATOM	18149	N	HIS	G1334	81.462	108.766	54.786	1.00	100.07	G
ATOM	18150	CA	HIS	G1334	82.756	108.469	55.382	1.00	100.07	G
ATOM	18151	CB	HIS	G1334	83.735	108.016	54.280	1.00	88.38	G
ATOM	18152	CG	HIS	G1334	83.054	107.668	52.993	1.00	88.38	G
ATOM	18153	CD2	HIS	G1334	83.085	108.267	51.779	1.00	88.38	G
ATOM	18154	ND1	HIS	G1334	82.100	106.678	52.907	1.00	88.38	G
ATOM	18155	CE1	HIS	G1334	81.566	106.689	51.699	1.00	88.38	G
ATOM	18156	NE2	HIS	G1334	82.145	107.646	50.996	1.00	88.38	G
ATOM	18157	C	HIS	G1334	83.238	109.754	56.057	1.00	100.07	G
ATOM	18158	O	HIS	G1334	84.326	109.803	56.632	1.00	100.07	G
ATOM	18159	N	GLN	G1335	82.410	110.792	55.976	1.00	94.89	G
ATOM	18160	CA	GLN	G1335	82.735	112.069	56.582	1.00	94.89	G
ATOM	18161	CB	GLN	G1335	81.830	113.168	56.046	1.00	38.51	G
ATOM	18162	CG	GLN	G1335	82.347	113.853	54.805	1.00	38.51	G
ATOM	18163	CD	GLN	G1335	81.519	115.069	54.443	1.00	38.51	G
ATOM	18164	OE1	GLN	G1335	81.284	115.944	55.278	1.00	38.51	G
ATOM	18165	NE2	GLN	G1335	81.077	115.135	53.196	1.00	38.51	G
ATOM	18166	C	GLN	G1335	82.550	111.941	58.078	1.00	94.89	G
ATOM	18167	O	GLN	G1335	83.516	112.026	58.839	1.00	94.89	G
ATOM	18168	N	LEU	G1336	81.309	111.738	58.510	1.00	31.83	G
ATOM	18169	CA	LEU	G1336	81.062	111.573	59.925	1.00	31.83	G
ATOM	18170	CB	LEU	G1336	79.563	111.514	60.204	1.00	6.48	G
ATOM	18171	CG	LEU	G1336	79.237	111.053	61.629	1.00	6.48	G
ATOM	18172	CD1	LEU	G1336	78.075	111.854	62.214	1.00	6.48	G
ATOM	18173	CD2	LEU	G1336	78.948	109.526	61.601	1.00	6.48	G
ATOM	18174	C	LEU	G1336	81.771	110.273	60.321	1.00	31.83	G
ATOM	18175	O	LEU	G1336	81.522	109.695	61.373	1.00	31.83	G
ATOM	18176	N	LEU	G1337	82.665	109.822	59.445	1.00	35.22	G
ATOM	18177	CA	LEU	G1337	83.460	108.627	59.677	1.00	35.22	G
ATOM	18178	CB	LEU	G1337	83.601	107.814	58.409	1.00	11.19	G
ATOM	18179	CG	LEU	G1337	84.570	106.692	58.718	1.00	11.19	G
ATOM	18180	CD1	LEU	G1337	83.873	105.701	59.621	1.00	11.19	G
ATOM	18181	CD2	LEU	G1337	85.031	106.027	57.457	1.00	11.19	G
ATOM	18182	C	LEU	G1337	84.846	109.070	60.120	1.00	35.22	G
ATOM	18183	O	LEU	G1337	85.357	108.630	61.150	1.00	35.22	G
ATOM	18184	N	GLU	G1338	85.453	109.939	59.315	1.00	68.84	G
ATOM	18185	CA	GLU	G1338	86.773	110.482	59.612	1.00	68.84	G
ATOM	18186	CB	GLU	G1338	87.366	111.160	58.386	1.00	100.07	G
ATOM	18187	CG	GLU	G1338	88.812	111.519	58.561	1.00	100.07	G
ATOM	18188	CD	GLU	G1338	89.637	111.076	57.383	1.00	100.07	G
ATOM	18189	OE1	GLU	G1338	89.474	111.671	56.296	1.00	100.07	G
ATOM	18190	OE2	GLU	G1338	90.438	110.126	57.541	1.00	100.07	G

ATOM	18191	C	GLU	G1338	86.552	111.515	60.689	1.00	68.84	G
ATOM	18192	O	GLU	G1338	87.437	111.821	61.489	1.00	68.84	G
ATOM	18193	N	ALA	G1339	85.349	112.065	60.682	1.00	52.81	G
ATOM	18194	CA	ALA	G1339	84.979	113.042	61.670	1.00	52.81	G
ATOM	18195	CB	ALA	G1339	83.552	113.482	61.461	1.00	32.57	G
ATOM	18196	C	ALA	G1339	85.119	112.305	62.985	1.00	52.81	G
ATOM	18197	O	ALA	G1339	85.980	112.646	63.795	1.00	52.81	G
ATOM	18198	N	LYS	G1340	84.292	111.274	63.183	1.00	38.81	G
ATOM	18199	CA	LYS	G1340	84.341	110.493	64.417	1.00	38.81	G
ATOM	18200	CB	LYS	G1340	83.207	110.902	65.377	1.00	72.23	G
ATOM	18201	CG	LYS	G1340	83.432	110.371	66.805	1.00	72.23	G
ATOM	18202	CD	LYS	G1340	82.182	110.409	67.694	1.00	72.23	G
ATOM	18203	CE	LYS	G1340	82.413	109.667	69.033	1.00	72.23	G
ATOM	18204	NZ	LYS	G1340	81.175	109.524	69.877	1.00	72.23	G
ATOM	18205	C	LYS	G1340	84.299	108.983	64.217	1.00	38.81	G
ATOM	18206	O	LYS	G1340	83.276	108.353	64.461	1.00	38.81	G
ATOM	18207	N	GLY	G1341	85.422	108.413	63.786	1.00	79.81	G
ATOM	18208	CA	GLY	G1341	85.521	106.973	63.583	1.00	79.81	G
ATOM	18209	C	GLY	G1341	84.392	106.261	62.849	1.00	79.81	G
ATOM	18210	O	GLY	G1341	83.558	106.912	62.224	1.00	79.81	G
ATOM	18211	N	PRO	G1342	84.352	104.912	62.897	1.00	38.38	G
ATOM	18212	CD	PRO	G1342	85.452	104.049	63.363	1.00	33.97	G
ATOM	18213	CA	PRO	G1342	83.336	104.084	62.247	1.00	38.38	G
ATOM	18214	CB	PRO	G1342	84.122	102.850	61.857	1.00	33.97	G
ATOM	18215	CG	PRO	G1342	84.922	102.633	63.071	1.00	33.97	G
ATOM	18216	C	PRO	G1342	82.204	103.720	63.187	1.00	38.38	G
ATOM	18217	O	PRO	G1342	81.063	103.549	62.759	1.00	38.38	G
ATOM	18218	N	GLU	G1343	82.533	103.587	64.465	1.00	57.73	G
ATOM	18219	CA	GLU	G1343	81.549	103.216	65.465	1.00	57.73	G
ATOM	18220	CB	GLU	G1343	82.238	103.041	66.813	1.00	100.07	G
ATOM	18221	CG	GLU	G1343	83.347	102.012	66.762	1.00	100.07	G
ATOM	18222	CD	GLU	G1343	83.958	101.736	68.116	1.00	100.07	G
ATOM	18223	OE1	GLU	G1343	84.495	102.683	68.732	1.00	100.07	G
ATOM	18224	OE2	GLU	G1343	83.901	100.569	68.560	1.00	100.07	G
ATOM	18225	C	GLU	G1343	80.400	104.214	65.569	1.00	57.73	G
ATOM	18226	O	GLU	G1343	79.259	103.834	65.858	1.00	57.73	G
ATOM	18227	N	ALA	G1344	80.690	105.492	65.346	1.00	46.13	G
ATOM	18228	CA	ALA	G1344	79.637	106.492	65.400	1.00	46.13	G
ATOM	18229	CB	ALA	G1344	80.232	107.890	65.395	1.00	98.70	G
ATOM	18230	C	ALA	G1344	78.836	106.244	64.131	1.00	46.13	G
ATOM	18231	O	ALA	G1344	77.611	106.166	64.150	1.00	46.13	G
ATOM	18232	N	VAL	G1345	79.554	106.098	63.025	1.00	36.62	G
ATOM	18233	CA	VAL	G1345	78.944	105.838	61.735	1.00	36.62	G
ATOM	18234	CB	VAL	G1345	80.033	105.569	60.693	1.00	22.29	G
ATOM	18235	CG1	VAL	G1345	79.437	104.903	59.460	1.00	22.29	G
ATOM	18236	CG2	VAL	G1345	80.707	106.878	60.337	1.00	22.29	G
ATOM	18237	C	VAL	G1345	77.977	104.652	61.782	1.00	36.62	G
ATOM	18238	O	VAL	G1345	76.774	104.825	61.573	1.00	36.62	G
ATOM	18239	N	GLU	G1346	78.510	103.455	62.051	1.00	42.14	G
ATOM	18240	CA	GLU	G1346	77.696	102.238	62.116	1.00	42.14	G
ATOM	18241	CB	GLU	G1346	78.356	101.176	62.997	1.00	67.01	G
ATOM	18242	CG	GLU	G1346	79.682	100.662	62.471	1.00	67.01	G
ATOM	18243	CD	GLU	G1346	80.155	99.425	63.209	1.00	67.01	G
ATOM	18244	OE1	GLU	G1346	79.422	98.413	63.187	1.00	67.01	G
ATOM	18245	OE2	GLU	G1346	81.255	99.460	63.807	1.00	67.01	G
ATOM	18246	C	GLU	G1346	76.362	102.616	62.705	1.00	42.14	G
ATOM	18247	O	GLU	G1346	75.305	102.283	62.171	1.00	42.14	G
ATOM	18248	N	ARG	G1347	76.435	103.338	63.811	1.00	33.71	G
ATOM	18249	CA	ARG	G1347	75.248	103.803	64.487	1.00	33.71	G
ATOM	18250	CB	ARG	G1347	75.622	104.706	65.664	1.00	100.07	G
ATOM	18251	CG	ARG	G1347	75.473	104.099	67.055	1.00	100.07	G
ATOM	18252	CD	ARG	G1347	75.469	105.213	68.109	1.00	100.07	G
ATOM	18253	NE	ARG	G1347	75.255	104.720	69.467	1.00	100.07	G
ATOM	18254	CZ	ARG	G1347	74.939	105.503	70.492	1.00	100.07	G
ATOM	18255	NH1	ARG	G1347	74.803	106.807	70.299	1.00	100.07	G
ATOM	18256	NH2	ARG	G1347	74.760	104.990	71.706	1.00	100.07	G
ATOM	18257	C	ARG	G1347	74.401	104.605	63.518	1.00	33.71	G
ATOM	18258	O	ARG	G1347	73.193	104.419	63.444	1.00	33.71	G
ATOM	18259	N	TYR	G1348	75.032	105.498	62.769	1.00	27.52	G
ATOM	18260	CA	TYR	G1348	74.277	106.336	61.855	1.00	27.52	G
ATOM	18261	CB	TYR	G1348	75.176	107.349	61.188	1.00	19.59	G
ATOM	18262	CG	TYR	G1348	74.356	108.319	60.404	1.00	19.59	G
ATOM	18263	CD1	TYR	G1348	73.309	108.984	61.000	1.00	19.59	G
ATOM	18264	CE1	TYR	G1348	72.551	109.893	60.298	1.00	19.59	G
ATOM	18265	CD2	TYR	G1348	74.630	108.582	59.085	1.00	19.59	G
ATOM	18266	CE2	TYR	G1348	73.885	109.493	58.368	1.00	19.59	G
ATOM	18267	CZ	TYR	G1348	72.849	110.156	58.981	1.00	19.59	G
ATOM	18268	OH	TYR	G1348	72.142	111.127	58.294	1.00	19.59	G
ATOM	18269	C	TYR	G1348	73.437	105.647	60.776	1.00	27.52	G
ATOM	18270	O	TYR	G1348	72.526	106.267	60.199	1.00	27.52	G
ATOM	18271	N	LEU	G1349	73.755	104.388	60.476	1.00	24.73	G
ATOM	18272	CA	LEU	G1349	72.977	103.636	59.499	1.00	24.73	G
ATOM	18273	CB	LEU	G1349	73.855	102.627	58.748	1.00	12.05	G
ATOM	18274	CG	LEU	G1349	74.913	103.183	57.782	1.00	12.05	G

ATOM	18443	CD	GLU	G1370	72.916	95.729	65.497	1.00	51.14	G
ATOM	18444	OE1	GLU	G1370	73.561	95.073	66.364	1.00	51.14	G
ATOM	18445	OE2	GLU	G1370	72.613	96.933	65.655	1.00	51.14	G
ATOM	18446	C	GLU	G1370	74.425	94.391	60.901	1.00	45.01	G
ATOM	18447	O	GLU	G1370	75.259	94.896	60.156	1.00	45.01	G
ATOM	18448	N	ILE	G1371	74.100	93.098	60.858	1.00	36.41	G
ATOM	18449	CA	ILE	G1371	74.739	92.163	59.926	1.00	36.41	G
ATOM	18450	CB	ILE	G1371	73.794	91.043	59.462	1.00	5.07	G
ATOM	18451	CG2	ILE	G1371	74.418	90.314	58.318	1.00	5.07	G
ATOM	18452	CG1	ILE	G1371	73.544	90.037	60.577	1.00	5.07	G
ATOM	18453	CD	ILE	G1371	74.794	89.299	61.011	1.00	5.07	G
ATOM	18454	C	ILE	G1371	75.213	92.848	58.657	1.00	36.41	G
ATOM	18455	O	ILE	G1371	76.397	92.783	58.306	1.00	36.41	G
ATOM	18456	N	VAL	G1372	74.284	93.486	57.953	1.00	30.35	G
ATOM	18457	CA	VAL	G1372	74.668	94.157	56.727	1.00	30.35	G
ATOM	18458	CB	VAL	G1372	73.435	94.722	55.970	1.00	18.98	G
ATOM	18459	CG1	VAL	G1372	73.838	95.850	55.018	1.00	18.98	G
ATOM	18460	CG2	VAL	G1372	72.807	93.615	55.154	1.00	18.98	G
ATOM	18461	C	VAL	G1372	75.686	95.256	56.998	1.00	30.35	G
ATOM	18462	O	VAL	G1372	76.726	95.297	56.348	1.00	30.35	G
ATOM	18463	N	VAL	G1373	75.406	96.132	57.962	1.00	32.36	G
ATOM	18464	CA	VAL	G1373	76.337	97.219	58.274	1.00	32.36	G
ATOM	18465	CB	VAL	G1373	75.956	97.973	59.582	1.00	19.30	G
ATOM	18466	CG1	VAL	G1373	77.206	98.580	60.230	1.00	19.30	G
ATOM	18467	CG2	VAL	G1373	74.955	99.090	59.264	1.00	19.30	G
ATOM	18468	C	VAL	G1373	77.754	96.690	58.404	1.00	32.36	G
ATOM	18469	O	VAL	G1373	78.674	97.215	57.779	1.00	32.36	G
ATOM	18470	N	ARG	G1374	77.940	95.646	59.203	1.00	30.31	G
ATOM	18471	CA	ARG	G1374	79.278	95.100	59.353	1.00	30.31	G
ATOM	18472	CB	ARG	G1374	79.265	93.805	60.157	1.00	35.80	G
ATOM	18473	CG	ARG	G1374	80.651	93.390	60.552	1.00	35.80	G
ATOM	18474	CD	ARG	G1374	80.758	91.913	60.635	1.00	35.80	G
ATOM	18475	NE	ARG	G1374	80.234	91.405	61.886	1.00	35.80	G
ATOM	18476	CZ	ARG	G1374	80.157	90.112	62.183	1.00	35.80	G
ATOM	18477	NH1	ARG	G1374	80.565	89.191	61.315	1.00	35.80	G
ATOM	18478	NH2	ARG	G1374	79.685	89.734	63.363	1.00	35.80	G
ATOM	18479	C	ARG	G1374	79.813	94.830	57.951	1.00	30.31	G
ATOM	18480	O	ARG	G1374	80.875	95.324	57.563	1.00	30.31	G
ATOM	18481	N	GLN	G1375	79.060	94.052	57.188	1.00	37.70	G
ATOM	18482	CA	GLN	G1375	79.445	93.747	55.825	1.00	37.70	G
ATOM	18483	CB	GLN	G1375	78.274	93.096	55.107	1.00	49.34	G
ATOM	18484	CG	GLN	G1375	78.090	91.735	55.624	1.00	49.34	G
ATOM	18485	CD	GLN	G1375	79.426	91.058	55.691	1.00	49.34	G
ATOM	18486	OE1	GLN	G1375	80.017	90.747	54.654	1.00	49.34	G
ATOM	18487	NE2	GLN	G1375	79.937	90.856	56.906	1.00	49.34	G
ATOM	18488	C	GLN	G1375	79.888	94.991	55.073	1.00	37.70	G
ATOM	18489	O	GLN	G1375	80.903	94.990	54.366	1.00	37.70	G
ATOM	18490	N	MET	G1376	79.114	96.054	55.240	1.00	42.35	G
ATOM	18491	CA	MET	G1376	79.404	97.303	54.582	1.00	42.35	G
ATOM	18492	CB	MET	G1376	78.471	98.383	55.107	1.00	42.60	G
ATOM	18493	CG	MET	G1376	78.217	99.512	54.141	1.00	42.60	G
ATOM	18494	SD	MET	G1376	76.525	100.131	54.332	1.00	42.60	G
ATOM	18495	CE	MET	G1376	75.668	99.034	53.204	1.00	42.60	G
ATOM	18496	C	MET	G1376	80.853	97.649	54.854	1.00	42.35	G
ATOM	18497	O	MET	G1376	81.663	97.650	53.929	1.00	42.35	G
ATOM	18498	N	LEU	G1377	81.190	97.900	56.120	1.00	52.66	G
ATOM	18499	CA	LEU	G1377	82.564	98.254	56.480	1.00	52.66	G
ATOM	18500	CB	LEU	G1377	82.575	99.349	57.567	1.00	40.09	G
ATOM	18501	CG	LEU	G1377	81.825	99.253	58.902	1.00	40.09	G
ATOM	18502	CD1	LEU	G1377	80.354	99.285	58.638	1.00	40.09	G
ATOM	18503	CD2	LEU	G1377	82.207	97.995	59.671	1.00	40.09	G
ATOM	18504	C	LEU	G1377	83.451	97.072	56.889	1.00	52.66	G
ATOM	18505	O	LEU	G1377	84.036	97.035	57.972	1.00	52.66	G
ATOM	18506	N	ALA	G1378	83.554	96.105	55.994	1.00	61.12	G
ATOM	18507	CA	ALA	G1378	84.375	94.943	56.247	1.00	61.12	G
ATOM	18508	CB	ALA	G1378	83.674	93.697	55.747	1.00	30.08	G
ATOM	18509	C	ALA	G1378	85.667	95.146	55.482	1.00	61.12	G
ATOM	18510	O	ALA	G1378	86.165	94.212	54.861	1.00	61.12	G
ATOM	18511	N	TYR	G1379	86.208	96.361	55.500	1.00	99.86	G
ATOM	18512	CA	TYR	G1379	87.434	96.619	54.753	1.00	99.86	G
ATOM	18513	CB	TYR	G1379	87.083	97.128	53.361	1.00	58.85	G
ATOM	18514	CG	TYR	G1379	86.157	96.194	52.654	1.00	58.85	G
ATOM	18515	CD1	TYR	G1379	84.795	96.184	52.944	1.00	58.85	G
ATOM	18516	CE1	TYR	G1379	83.949	95.230	52.387	1.00	58.85	G
ATOM	18517	CD2	TYR	G1379	86.650	95.235	51.782	1.00	58.85	G
ATOM	18518	CE2	TYR	G1379	85.817	94.279	51.217	1.00	58.85	G
ATOM	18519	CZ	TYR	G1379	84.470	94.272	51.524	1.00	58.85	G
ATOM	18520	OH	TYR	G1379	83.655	93.296	50.985	1.00	58.85	G
ATOM	18521	C	TYR	G1379	88.428	97.567	55.392	1.00	99.86	G
ATOM	18522	O	TYR	G1379	88.097	98.312	56.314	1.00	99.86	G
ATOM	18523	N	VAL	G1380	89.651	97.536	54.867	1.00	45.10	G
ATOM	18524	CA	VAL	G1380	90.745	98.372	55.354	1.00	45.10	G
ATOM	18525	CB	VAL	G1380	91.377	97.733	56.597	1.00	36.73	G
ATOM	18526	CG1	VAL	G1380	90.598	98.113	57.834	1.00	36.73	G

ATOM	18611	CB	GLU	G1392	96.509	102.443	47.649	1.00100.07	G
ATOM	18612	CG	GLU	G1392	95.188	103.112	47.227	1.00100.07	G
ATOM	18613	CD	GLU	G1392	95.229	103.708	45.811	1.00100.07	G
ATOM	18614	OE1	GLU	G1392	95.264	102.933	44.827	1.00100.07	G
ATOM	18615	OE2	GLU	G1392	95.228	104.956	45.682	1.00100.07	G
ATOM	18616	C	GLU	G1392	95.866	100.559	49.188	1.00 99.92	G
ATOM	18617	O	GLU	G1392	95.494	99.963	48.172	1.00 99.92	G
ATOM	18618	N	GLY	G1393	95.735	100.056	50.412	1.00100.07	G
ATOM	18619	CA	GLY	G1393	95.135	98.751	50.615	1.00100.07	G
ATOM	18620	C	GLY	G1393	93.640	98.707	50.356	1.00100.07	G
ATOM	18621	O	GLY	G1393	92.967	99.738	50.351	1.00100.07	G
ATOM	18622	N	GLN	G1394	93.128	97.498	50.142	1.00 99.85	G
ATOM	18623	CA	GLN	G1394	91.710	97.244	49.880	1.00 99.85	G
ATOM	18624	CB	GLN	G1394	91.356	97.647	48.438	1.00100.07	G
ATOM	18625	CG	GLN	G1394	91.198	99.164	48.208	1.00100.07	G
ATOM	18626	CD	GLN	G1394	91.396	99.594	46.744	1.00100.07	G
ATOM	18627	OE1	GLN	G1394	92.519	99.563	46.214	1.00100.07	G
ATOM	18628	NE2	GLN	G1394	90.305	99.997	46.088	1.00100.07	G
ATOM	18629	C	GLN	G1394	91.526	95.736	50.077	1.00 99.85	G
ATOM	18630	O	GLN	G1394	91.261	95.002	49.122	1.00 99.85	G
ATOM	18631	N	VAL	G1395	91.671	95.288	51.326	1.00100.07	G
ATOM	18632	CA	VAL	G1395	91.581	93.866	51.674	1.00100.07	G
ATOM	18633	CB	VAL	G1395	92.961	93.344	52.170	1.00 56.37	G
ATOM	18634	CG1	VAL	G1395	93.057	91.836	51.988	1.00 56.37	G
ATOM	18635	CG2	VAL	G1395	94.083	94.054	51.435	1.00 56.37	G
ATOM	18636	C	VAL	G1395	90.558	93.539	52.766	1.00100.07	G
ATOM	18637	O	VAL	G1395	90.046	94.434	53.446	1.00100.07	G
ATOM	18638	N	LEU	G1396	90.269	92.247	52.924	1.00 76.34	G
ATOM	18639	CA	LEU	G1396	89.342	91.792	53.956	1.00 76.34	G
ATOM	18640	CB	LEU	G1396	89.113	90.277	53.886	1.00100.07	G
ATOM	18641	CG	LEU	G1396	88.165	89.672	52.844	1.00100.07	G
ATOM	18642	CD1	LEU	G1396	87.936	88.194	53.177	1.00100.07	G
ATOM	18643	CD2	LEU	G1396	86.834	90.416	52.850	1.00100.07	G
ATOM	18644	C	LEU	G1396	89.984	92.127	55.290	1.00 76.34	G
ATOM	18645	O	LEU	G1396	91.069	91.637	55.604	1.00 76.34	G
ATOM	18646	N	GLU	G1397	89.309	92.955	56.075	1.00 50.50	G
ATOM	18647	CA	GLU	G1397	89.846	93.369	57.360	1.00 50.50	G
ATOM	18648	CB	GLU	G1397	88.792	94.104	58.167	1.00100.07	G
ATOM	18649	CG	GLU	G1397	89.295	94.541	59.513	1.00100.07	G
ATOM	18650	CD	GLU	G1397	88.190	95.096	60.359	1.00100.07	G
ATOM	18651	OE1	GLU	G1397	87.659	96.169	60.005	1.00100.07	G
ATOM	18652	OE2	GLU	G1397	87.840	94.453	61.370	1.00100.07	G
ATOM	18653	C	GLU	G1397	90.428	92.247	58.203	1.00 50.50	G
ATOM	18654	O	GLU	G1397	91.633	92.219	58.427	1.00 50.50	G
ATOM	18655	N	LYS	G1398	89.603	91.327	58.685	1.00 99.69	G
ATOM	18656	CA	LYS	G1398	90.178	90.269	59.496	1.00 99.69	G
ATOM	18657	CB	LYS	G1398	89.199	89.127	59.756	1.00 99.84	G
ATOM	18658	CG	LYS	G1398	89.868	88.002	60.546	1.00 99.84	G
ATOM	18659	CD	LYS	G1398	88.905	87.262	61.434	1.00 99.84	G
ATOM	18660	CE	LYS	G1398	89.654	86.360	62.387	1.00 99.84	G
ATOM	18661	NZ	LYS	G1398	88.727	85.782	63.393	1.00 99.84	G
ATOM	18662	C	LYS	G1398	91.391	89.717	58.781	1.00 99.69	G
ATOM	18663	O	LYS	G1398	92.478	89.658	59.354	1.00 99.69	G
ATOM	18664	N	TRP	G1399	91.207	89.321	57.524	1.00 72.86	G
ATOM	18665	CA	TRP	G1399	92.312	88.779	56.752	1.00 72.86	G
ATOM	18666	CB	TRP	G1399	91.967	88.775	55.262	1.00100.07	G
ATOM	18667	CG	TRP	G1399	92.603	87.647	54.505	1.00100.07	G
ATOM	18668	CD2	TRP	G1399	93.498	87.744	53.380	1.00100.07	G
ATOM	18669	CE2	TRP	G1399	93.831	86.425	52.993	1.00100.07	G
ATOM	18670	CE3	TRP	G1399	94.052	88.821	52.667	1.00100.07	G
ATOM	18671	CD1	TRP	G1399	92.437	86.309	54.740	1.00100.07	G
ATOM	18672	NE1	TRP	G1399	93.170	85.569	53.836	1.00100.07	G
ATOM	18673	CZ2	TRP	G1399	94.691	86.149	51.915	1.00100.07	G
ATOM	18674	CZ3	TRP	G1399	94.910	88.545	51.593	1.00100.07	G
ATOM	18675	CH2	TRP	G1399	95.220	87.219	51.234	1.00100.07	G
ATOM	18676	C	TRP	G1399	93.501	89.697	57.014	1.00 72.86	G
ATOM	18677	O	TRP	G1399	94.616	89.247	57.273	1.00 72.86	G
ATOM	18678	N	ASP	G1400	93.226	90.995	56.997	1.00 58.87	G
ATOM	18679	CA	ASP	G1400	94.242	92.010	57.205	1.00 58.87	G
ATOM	18680	CB	ASP	G1400	93.758	93.341	56.627	1.00100.07	G
ATOM	18681	CG	ASP	G1400	94.900	94.267	56.268	1.00100.07	G
ATOM	18682	OD1	ASP	G1400	95.565	94.777	57.192	1.00100.07	G
ATOM	18683	OD2	ASP	G1400	95.139	94.474	55.057	1.00100.07	G
ATOM	18684	C	ASP	G1400	94.635	92.189	58.666	1.00 58.87	G
ATOM	18685	O	ASP	G1400	95.691	92.736	58.962	1.00 58.87	G
ATOM	18686	N	VAL	G1401	93.789	91.747	59.585	1.00 81.85	G
ATOM	18687	CA	VAL	G1401	94.119	91.873	60.999	1.00 81.85	G
ATOM	18688	CB	VAL	G1401	92.889	91.615	61.910	1.00100.07	G
ATOM	18689	CG1	VAL	G1401	93.260	91.875	63.370	1.00100.07	G
ATOM	18690	CG2	VAL	G1401	91.722	92.499	61.489	1.00100.07	G
ATOM	18691	C	VAL	G1401	95.176	90.817	61.291	1.00 81.85	G
ATOM	18692	O	VAL	G1401	96.022	90.977	62.169	1.00 81.85	G
ATOM	18693	N	GLU	G1402	95.121	89.733	60.530	1.00100.07	G
ATOM	18694	CA	GLU	G1402	96.055	88.638	60.697	1.00100.07	G

ATOM	18779	NZ	LYS	G1413	106.197	98.960	67.353	1.00100.07	G
ATOM	18780	C	LYS	G1413	107.393	93.308	64.785	1.00100.07	G
ATOM	18781	O	LYS	G1413	108.461	92.901	64.328	1.00100.07	G
ATOM	18782	N	VAL	G1414	106.611	94.180	64.144	1.00100.07	G
ATOM	18783	CA	VAL	G1414	106.930	94.748	62.822	1.00100.07	G
ATOM	18784	CB	VAL	G1414	106.851	93.644	61.688	1.00100.07	G
ATOM	18785	CG1	VAL	G1414	106.821	94.293	60.295	1.00100.07	G
ATOM	18786	CG2	VAL	G1414	108.051	92.693	61.774	1.00100.07	G
ATOM	18787	C	VAL	G1414	105.959	95.906	62.473	1.00100.07	G
ATOM	18788	O	VAL	G1414	104.793	95.908	62.893	1.00100.07	G
ATOM	18789	N	PRO	G1415	106.432	96.908	61.704	1.00100.07	G
ATOM	18790	CD	PRO	G1415	107.828	97.136	61.284	1.00100.07	G
ATOM	18791	CA	PRO	G1415	105.589	98.048	61.317	1.00100.07	G
ATOM	18792	CB	PRO	G1415	106.608	99.064	60.790	1.00100.07	G
ATOM	18793	CG	PRO	G1415	107.672	98.200	60.211	1.00100.07	G
ATOM	18794	C	PRO	G1415	104.488	97.740	60.286	1.00100.07	G
ATOM	18795	O	PRO	G1415	104.772	97.522	59.102	1.00100.07	G
ATOM	18796	N	VAL	G1416	103.236	97.733	60.748	1.00100.07	G
ATOM	18797	CA	VAL	G1416	102.068	97.473	59.896	1.00100.07	G
ATOM	18798	CB	VAL	G1416	101.742	95.950	59.817	1.00100.07	G
ATOM	18799	CG1	VAL	G1416	100.493	95.722	58.953	1.00100.07	G
ATOM	18800	CG2	VAL	G1416	102.941	95.178	59.255	1.00100.07	G
ATOM	18801	C	VAL	G1416	100.846	98.201	60.480	1.00100.07	G
ATOM	18802	O	VAL	G1416	100.812	98.480	61.683	1.00100.07	G
ATOM	18803	N	ALA	G1417	99.854	98.510	59.641	1.00100.07	G
ATOM	18804	CA	ALA	G1417	98.642	99.196	60.107	1.00100.07	G
ATOM	18805	CB	ALA	G1417	99.009	100.489	60.848	1.00100.07	G
ATOM	18806	C	ALA	G1417	97.679	99.506	58.964	1.00100.07	G
ATOM	18807	O	ALA	G1417	97.903	99.080	57.829	1.00100.07	G
ATOM	18808	N	TRP	G1418	96.617	100.261	59.265	1.00 99.08	G
ATOM	18809	CA	TRP	G1418	95.603	100.612	58.265	1.00 99.08	G
ATOM	18810	CB	TRP	G1418	94.711	99.396	58.000	1.00 99.71	G
ATOM	18811	CG	TRP	G1418	94.138	98.796	59.259	1.00 99.71	G
ATOM	18812	CD2	TRP	G1418	94.313	97.454	59.725	1.00 99.71	G
ATOM	18813	CE2	TRP	G1418	93.648	97.348	60.965	1.00 99.71	G
ATOM	18814	CE3	TRP	G1418	94.973	96.327	59.214	1.00 99.71	G
ATOM	18815	CD1	TRP	G1418	93.385	99.432	60.208	1.00 99.71	G
ATOM	18816	NE1	TRP	G1418	93.089	98.572	61.237	1.00 99.71	G
ATOM	18817	CZ2	TRP	G1418	93.621	96.160	61.704	1.00 99.71	G
ATOM	18818	CZ3	TRP	G1418	94.946	95.147	59.947	1.00 99.71	G
ATOM	18819	CH2	TRP	G1418	94.276	95.074	61.178	1.00 99.71	G
ATOM	18820	C	TRP	G1418	94.704	101.803	58.632	1.00 99.08	G
ATOM	18821	O	TRP	G1418	95.119	102.744	59.313	1.00 99.08	G
ATOM	18822	N	LYS	G1419	93.461	101.725	58.158	1.00 79.53	G
ATOM	18823	CA	LYS	G1419	92.419	102.729	58.375	1.00 79.53	G
ATOM	18824	CB	LYS	G1419	92.688	103.965	57.517	1.00100.07	G
ATOM	18825	CG	LYS	G1419	91.460	104.813	57.246	1.00100.07	G
ATOM	18826	CD	LYS	G1419	91.655	105.664	56.007	1.00100.07	G
ATOM	18827	CE	LYS	G1419	90.355	106.315	55.574	1.00100.07	G
ATOM	18828	NZ	LYS	G1419	90.509	106.958	54.242	1.00100.07	G
ATOM	18829	C	LYS	G1419	91.081	102.105	57.972	1.00 79.53	G
ATOM	18830	O	LYS	G1419	91.040	101.144	57.207	1.00 79.53	G
ATOM	18831	N	PRO	G1420	89.966	102.637	58.483	1.00 51.68	G
ATOM	18832	CD	PRO	G1420	89.782	103.568	59.610	1.00100.07	G
ATOM	18833	CA	PRO	G1420	88.690	102.037	58.097	1.00 51.68	G
ATOM	18834	CB	PRO	G1420	87.812	102.317	59.307	1.00100.07	G
ATOM	18835	CG	PRO	G1420	88.265	103.685	59.696	1.00100.07	G
ATOM	18836	C	PRO	G1420	88.108	102.629	56.820	1.00 51.68	G
ATOM	18837	O	PRO	G1420	87.845	103.834	56.743	1.00 51.68	G
ATOM	18838	N	LEU	G1421	87.915	101.773	55.820	1.00 45.79	G
ATOM	18839	CA	LEU	G1421	87.339	102.202	54.552	1.00 45.79	G
ATOM	18840	CB	LEU	G1421	88.038	101.506	53.379	1.00100.07	G
ATOM	18841	CG	LEU	G1421	87.504	101.791	51.965	1.00100.07	G
ATOM	18842	CD1	LEU	G1421	87.371	103.295	51.712	1.00100.07	G
ATOM	18843	CD2	LEU	G1421	88.443	101.150	50.945	1.00100.07	G
ATOM	18844	C	LEU	G1421	85.846	101.871	54.554	1.00 45.79	G
ATOM	18845	O	LEU	G1421	85.435	100.815	55.041	1.00 45.79	G
ATOM	18846	N	LEU	G1422	85.035	102.775	54.009	1.00 91.08	G
ATOM	18847	CA	LEU	G1422	83.591	102.575	53.979	1.00 91.08	G
ATOM	18848	CB	LEU	G1422	82.875	103.802	54.526	1.00 37.74	G
ATOM	18849	CG	LEU	G1422	81.391	103.543	54.736	1.00 37.74	G
ATOM	18850	CD1	LEU	G1422	81.260	102.460	55.809	1.00 37.74	G
ATOM	18851	CD2	LEU	G1422	80.673	104.826	55.141	1.00 37.74	G
ATOM	18852	C	LEU	G1422	83.015	102.266	52.607	1.00 91.08	G
ATOM	18853	O	LEU	G1422	83.001	103.119	51.720	1.00 91.08	G
ATOM	18854	N	MET	G1423	82.522	101.043	52.449	1.00 99.96	G
ATOM	18855	CA	MET	G1423	81.919	100.607	51.200	1.00 99.96	G
ATOM	18856	CB	MET	G1423	82.058	99.090	51.047	1.00 55.09	G
ATOM	18857	CG	MET	G1423	83.494	98.584	50.990	1.00 55.09	G
ATOM	18858	SD	MET	G1423	84.322	98.791	49.384	1.00 55.09	G
ATOM	18859	CE	MET	G1423	85.184	97.230	49.250	1.00 55.09	G
ATOM	18860	C	MET	G1423	80.443	100.982	51.254	1.00 99.96	G
ATOM	18861	O	MET	G1423	79.980	101.554	52.240	1.00 99.96	G
ATOM	18862	N	GLY	G1424	79.714	100.664	50.189	1.00 40.36	G

ATOM	18863	CA	GLY	G1424	78.292	100.949	50.133	1.00	40.36	G
ATOM	18864	C	GLY	G1424	77.622	99.681	49.653	1.00	40.36	G
ATOM	18865	O	GLY	G1424	77.361	99.531	48.450	1.00	40.36	G
ATOM	18866	N	VAL	G1425	77.348	98.778	50.602	1.00	27.66	G
ATOM	18867	CA	VAL	G1425	76.746	97.474	50.319	1.00	27.66	G
ATOM	18868	CB	VAL	G1425	75.197	97.536	50.408	1.00	71.14	G
ATOM	18869	CG1	VAL	G1425	74.645	98.546	49.438	1.00	71.14	G
ATOM	18870	CG2	VAL	G1425	74.611	96.176	50.163	1.00	71.14	G
ATOM	18871	C	VAL	G1425	77.234	97.015	48.934	1.00	27.66	G
ATOM	18872	O	VAL	G1425	78.266	96.347	48.836	1.00	27.66	G
ATOM	18873	N	THR	G1426	76.513	97.393	47.880	1.00	31.35	G
ATOM	18874	CA	THR	G1426	76.883	97.063	46.508	1.00	31.35	G
ATOM	18875	CB	THR	G1426	76.714	98.278	45.601	1.00	50.61	G
ATOM	18876	OG1	THR	G1426	75.341	98.663	45.566	1.00	50.61	G
ATOM	18877	CG2	THR	G1426	77.170	97.963	44.214	1.00	50.61	G
ATOM	18878	C	THR	G1426	78.336	96.629	46.408	1.00	31.35	G
ATOM	18879	O	THR	G1426	78.653	95.442	46.511	1.00	31.35	G
ATOM	18880	N	LYS	G1427	79.214	97.610	46.221	1.00	37.37	G
ATOM	18881	CA	LYS	G1427	80.647	97.375	46.102	1.00	37.37	G
ATOM	18882	CB	LYS	G1427	81.409	98.661	46.416	1.00	100.07	G
ATOM	18883	CG	LYS	G1427	80.968	99.807	45.530	1.00	100.07	G
ATOM	18884	CD	LYS	G1427	81.729	101.100	45.772	1.00	100.07	G
ATOM	18885	CE	LYS	G1427	81.308	102.155	44.737	1.00	100.07	G
ATOM	18886	NZ	LYS	G1427	82.068	103.436	44.836	1.00	100.07	G
ATOM	18887	C	LYS	G1427	81.156	96.247	46.981	1.00	37.37	G
ATOM	18888	O	LYS	G1427	81.533	95.200	46.475	1.00	37.37	G
ATOM	18889	N	SER	G1428	81.157	96.444	48.293	1.00	32.56	G
ATOM	18890	CA	SER	G1428	81.650	95.412	49.200	1.00	32.56	G
ATOM	18891	CB	SER	G1428	81.004	95.545	50.575	1.00	43.88	G
ATOM	18892	OG	SER	G1428	81.457	94.518	51.442	1.00	43.88	G
ATOM	18893	C	SER	G1428	81.405	94.009	48.662	1.00	32.56	G
ATOM	18894	O	SER	G1428	82.312	93.176	48.634	1.00	32.56	G
ATOM	18895	N	ALA	G1429	80.178	93.744	48.237	1.00	41.87	G
ATOM	18896	CA	ALA	G1429	79.863	92.439	47.694	1.00	41.87	G
ATOM	18897	CB	ALA	G1429	78.408	92.349	47.390	1.00	16.83	G
ATOM	18898	C	ALA	G1429	80.653	92.299	46.416	1.00	41.87	G
ATOM	18899	O	ALA	G1429	81.434	91.367	46.254	1.00	41.87	G
ATOM	18900	N	LEU	G1430	80.435	93.256	45.521	1.00	64.11	G
ATOM	18901	CA	LEU	G1430	81.071	93.310	44.209	1.00	64.11	G
ATOM	18902	CB	LEU	G1430	80.535	94.516	43.432	1.00	69.44	G
ATOM	18903	CG	LEU	G1430	81.144	94.800	42.061	1.00	69.44	G
ATOM	18904	CD1	LEU	G1430	81.321	93.507	41.300	1.00	69.44	G
ATOM	18905	CD2	LEU	G1430	80.249	95.754	41.290	1.00	69.44	G
ATOM	18906	C	LEU	G1430	82.593	93.353	44.214	1.00	64.11	G
ATOM	18907	O	LEU	G1430	83.240	92.671	43.421	1.00	64.11	G
ATOM	18908	N	SER	G1431	83.169	94.162	45.091	1.00	61.48	G
ATOM	18909	CA	SER	G1431	84.615	94.263	45.159	1.00	61.48	G
ATOM	18910	CB	SER	G1431	85.025	95.349	46.145	1.00	46.46	G
ATOM	18911	OG	SER	G1431	84.714	94.949	47.464	1.00	46.46	G
ATOM	18912	C	SER	G1431	85.186	92.927	45.608	1.00	61.48	G
ATOM	18913	O	SER	G1431	85.274	91.980	44.821	1.00	61.48	G
ATOM	18914	N	THR	G1432	85.566	92.851	46.879	1.00	74.93	G
ATOM	18915	CA	THR	G1432	86.136	91.632	47.432	1.00	74.93	G
ATOM	18916	CB	THR	G1432	86.409	91.766	48.930	1.00	100.07	G
ATOM	18917	OG1	THR	G1432	85.213	92.184	49.596	1.00	100.07	G
ATOM	18918	CG2	THR	G1432	87.520	92.765	49.175	1.00	100.07	G
ATOM	18919	C	THR	G1432	85.200	90.468	47.243	1.00	74.93	G
ATOM	18920	O	THR	G1432	84.019	90.651	46.956	1.00	74.93	G
ATOM	18921	N	LYS	G1433	85.736	89.270	47.421	1.00	63.33	G
ATOM	18922	CA	LYS	G1433	84.944	88.065	47.272	1.00	63.33	G
ATOM	18923	CB	LYS	G1433	83.938	88.250	46.131	1.00	72.24	G
ATOM	18924	CG	LYS	G1433	82.521	87.823	46.451	1.00	72.24	G
ATOM	18925	CD	LYS	G1433	81.964	88.505	47.679	1.00	72.24	G
ATOM	18926	CE	LYS	G1433	80.549	88.024	47.929	1.00	72.24	G
ATOM	18927	NZ	LYS	G1433	80.035	88.445	49.254	1.00	72.24	G
ATOM	18928	C	LYS	G1433	85.861	86.871	46.982	1.00	63.33	G
ATOM	18929	O	LYS	G1433	87.076	86.910	47.269	1.00	63.33	G
ATOM	18930	N	SER	G1434	85.278	85.817	46.406	1.00	61.50	G
ATOM	18931	CA	SER	G1434	86.028	84.615	46.097	1.00	61.50	G
ATOM	18932	CB	SER	G1434	85.542	83.445	46.960	1.00	32.04	G
ATOM	18933	OG	SER	G1434	84.715	82.550	46.233	1.00	32.04	G
ATOM	18934	C	SER	G1434	85.928	84.237	44.638	1.00	61.50	G
ATOM	18935	O	SER	G1434	85.243	83.284	44.290	1.00	61.50	G
ATOM	18936	N	TRP	G1435	86.619	84.997	43.794	1.00	64.00	G
ATOM	18937	CA	TRP	G1435	86.670	84.757	42.351	1.00	64.00	G
ATOM	18938	CB	TRP	G1435	87.920	83.885	42.053	1.00	26.78	G
ATOM	18939	CG	TRP	G1435	87.749	82.713	41.139	1.00	26.78	G
ATOM	18940	CD2	TRP	G1435	88.137	81.366	41.401	1.00	26.78	G
ATOM	18941	CE2	TRP	G1435	87.761	80.594	40.277	1.00	26.78	G
ATOM	18942	CE3	TRP	G1435	88.762	80.733	42.474	1.00	26.78	G
ATOM	18943	CD1	TRP	G1435	87.177	82.710	39.895	1.00	26.78	G
ATOM	18944	NE1	TRP	G1435	87.178	81.438	39.373	1.00	26.78	G
ATOM	18945	CZ2	TRP	G1435	87.987	79.221	40.202	1.00	26.78	G
ATOM	18946	CZ3	TRP	G1435	88.986	79.365	42.395	1.00	26.78	G

ATOM	18947	CH2	TRP	G1435	88.597	78.626	41.265	1.00	26.78	G
ATOM	18948	C	TRP	G1435	85.379	84.163	41.757	1.00	64.00	G
ATOM	18949	O	TRP	G1435	84.683	84.813	40.963	1.00	64.00	G
ATOM	18950	N	LEU	G1436	85.069	82.936	42.162	1.00	51.15	G
ATOM	18951	CA	LEU	G1436	83.896	82.208	41.715	1.00	51.15	G
ATOM	18952	CB	LEU	G1436	83.832	80.888	42.468	1.00	25.14	G
ATOM	18953	CG	LEU	G1436	83.669	79.712	41.509	1.00	25.14	G
ATOM	18954	CD1	LEU	G1436	84.624	79.867	40.321	1.00	25.14	G
ATOM	18955	CD2	LEU	G1436	83.908	78.399	42.262	1.00	25.14	G
ATOM	18956	C	LEU	G1436	82.551	82.924	41.840	1.00	51.15	G
ATOM	18957	O	LEU	G1436	81.558	82.475	41.273	1.00	51.15	G
ATOM	18958	N	SER	G1437	82.501	84.026	42.578	1.00	51.83	G
ATOM	18959	CA	SER	G1437	81.246	84.744	42.744	1.00	51.83	G
ATOM	18960	CB	SER	G1437	80.902	84.910	44.232	1.00	100.07	G
ATOM	18961	OG	SER	G1437	81.993	85.414	44.975	1.00	100.07	G
ATOM	18962	C	SER	G1437	81.276	86.084	42.052	1.00	51.83	G
ATOM	18963	O	SER	G1437	80.369	86.402	41.299	1.00	51.83	G
ATOM	18964	N	ALA	G1438	82.319	86.868	42.292	1.00	19.91	G
ATOM	18965	CA	ALA	G1438	82.440	88.175	41.646	1.00	19.91	G
ATOM	18966	CB	ALA	G1438	83.667	88.908	42.144	1.00	57.16	G
ATOM	18967	C	ALA	G1438	82.578	87.895	40.167	1.00	19.91	G
ATOM	18968	O	ALA	G1438	82.561	88.809	39.335	1.00	19.91	G
ATOM	18969	N	ALA	G1439	82.721	86.603	39.878	1.00	35.11	G
ATOM	18970	CA	ALA	G1439	82.866	86.066	38.530	1.00	35.11	G
ATOM	18971	CB	ALA	G1439	83.073	84.558	38.602	1.00	23.40	G
ATOM	18972	C	ALA	G1439	81.658	86.357	37.663	1.00	35.11	G
ATOM	18973	O	ALA	G1439	81.775	86.473	36.448	1.00	35.11	G
ATOM	18974	N	SER	G1440	80.495	86.454	38.297	1.00	31.18	G
ATOM	18975	CA	SER	G1440	79.255	86.709	37.586	1.00	31.18	G
ATOM	18976	CB	SER	G1440	78.080	86.224	38.403	1.00	29.41	G
ATOM	18977	OG	SER	G1440	78.181	86.738	39.708	1.00	29.41	G
ATOM	18978	C	SER	G1440	79.100	88.175	37.315	1.00	31.18	G
ATOM	18979	O	SER	G1440	78.817	88.573	36.187	1.00	31.18	G
ATOM	18980	N	PHE	G1441	79.292	88.981	38.349	1.00	51.22	G
ATOM	18981	CA	PHE	G1441	79.176	90.421	38.203	1.00	51.22	G
ATOM	18982	CB	PHE	G1441	79.901	91.130	39.342	1.00	81.19	G
ATOM	18983	CG	PHE	G1441	79.230	90.968	40.670	1.00	81.19	G
ATOM	18984	CD1	PHE	G1441	79.455	89.838	41.444	1.00	81.19	G
ATOM	18985	CD2	PHE	G1441	78.345	91.933	41.132	1.00	81.19	G
ATOM	18986	CE1	PHE	G1441	78.807	89.671	42.657	1.00	81.19	G
ATOM	18987	CE2	PHE	G1441	77.694	91.774	42.339	1.00	81.19	G
ATOM	18988	CZ	PHE	G1441	77.925	90.640	43.105	1.00	81.19	G
ATOM	18989	C	PHE	G1441	79.745	90.873	36.866	1.00	51.22	G
ATOM	18990	O	PHE	G1441	80.919	90.660	36.579	1.00	51.22	G
ATOM	18991	N	GLN	G1442	78.895	91.498	36.061	1.00	100.07	G
ATOM	18992	CA	GLN	G1442	79.258	91.975	34.736	1.00	100.07	G
ATOM	18993	CB	GLN	G1442	78.912	93.461	34.606	1.00	69.01	G
ATOM	18994	CG	GLN	G1442	78.746	93.923	33.155	1.00	69.01	G
ATOM	18995	CD	GLN	G1442	77.521	93.315	32.462	1.00	69.01	G
ATOM	18996	OE1	GLN	G1442	76.392	93.749	32.685	1.00	69.01	G
ATOM	18997	NE2	GLN	G1442	77.744	92.304	31.624	1.00	69.01	G
ATOM	18998	C	GLN	G1442	80.719	91.722	34.322	1.00	100.07	G
ATOM	18999	O	GLN	G1442	80.970	90.883	33.456	1.00	100.07	G
ATOM	19000	N	ASN	G1443	81.676	92.421	34.934	1.00	58.50	G
ATOM	19001	CA	ASN	G1443	83.095	92.253	34.591	1.00	58.50	G
ATOM	19002	CB	ASN	G1443	83.961	93.192	35.421	1.00	95.80	G
ATOM	19003	CG	ASN	G1443	83.577	94.631	35.251	1.00	95.80	G
ATOM	19004	OD1	ASN	G1443	83.478	95.136	34.133	1.00	95.80	G
ATOM	19005	ND2	ASN	G1443	83.362	95.311	36.366	1.00	95.80	G
ATOM	19006	C	ASN	G1443	83.616	90.837	34.793	1.00	58.50	G
ATOM	19007	O	ASN	G1443	84.624	90.635	35.468	1.00	58.50	G
ATOM	19008	N	THR	G1444	82.955	89.866	34.179	1.00	45.05	G
ATOM	19009	CA	THR	G1444	83.326	88.471	34.326	1.00	45.05	G
ATOM	19010	CB	THR	G1444	82.243	87.595	33.712	1.00	31.53	G
ATOM	19011	OG1	THR	G1444	81.005	87.843	34.397	1.00	31.53	G
ATOM	19012	CG2	THR	G1444	82.621	86.118	33.820	1.00	31.53	G
ATOM	19013	C	THR	G1444	84.700	88.053	33.795	1.00	45.05	G
ATOM	19014	O	THR	G1444	85.396	87.265	34.440	1.00	45.05	G
ATOM	19015	N	THR	G1445	85.098	88.572	32.637	1.00	59.45	G
ATOM	19016	CA	THR	G1445	86.405	88.233	32.057	1.00	59.45	G
ATOM	19017	CB	THR	G1445	86.538	88.782	30.647	1.00	36.61	G
ATOM	19018	OG1	THR	G1445	85.316	88.554	29.935	1.00	36.61	G
ATOM	19019	CG2	THR	G1445	87.683	88.098	29.932	1.00	36.61	G
ATOM	19020	C	THR	G1445	87.580	88.776	32.880	1.00	59.45	G
ATOM	19021	O	THR	G1445	88.631	88.132	32.980	1.00	59.45	G
ATOM	19022	N	HIS	G1446	87.402	89.974	33.440	1.00	47.46	G
ATOM	19023	CA	HIS	G1446	88.423	90.586	34.278	1.00	47.46	G
ATOM	19024	CB	HIS	G1446	88.144	92.065	34.519	1.00	70.63	G
ATOM	19025	CG	HIS	G1446	89.023	92.664	35.572	1.00	70.63	G
ATOM	19026	CD2	HIS	G1446	88.735	93.408	36.666	1.00	70.63	G
ATOM	19027	ND1	HIS	G1446	90.390	92.497	35.575	1.00	70.63	G
ATOM	19028	CE1	HIS	G1446	90.907	93.110	36.624	1.00	70.63	G
ATOM	19029	NE2	HIS	G1446	89.924	93.671	37.303	1.00	70.63	G
ATOM	19030	C	HIS	G1446	88.444	89.876	35.616	1.00	47.46	G

ATOM	19031	O	HIS	G1446	89.501	89.475	36.090	1.00	47.46	G
ATOM	19032	N	VAL	G1447	87.277	89.722	36.232	1.00	63.52	G
ATOM	19033	CA	VAL	G1447	87.209	89.030	37.514	1.00	63.52	G
ATOM	19034	CB	VAL	G1447	85.756	88.898	38.038	1.00	99.79	G
ATOM	19035	CG1	VAL	G1447	85.749	88.167	39.379	1.00	99.79	G
ATOM	19036	CG2	VAL	G1447	85.126	90.271	38.196	1.00	99.79	G
ATOM	19037	C	VAL	G1447	87.764	87.630	37.299	1.00	63.52	G
ATOM	19038	O	VAL	G1447	88.009	86.887	38.251	1.00	63.52	G
ATOM	19039	N	LEU	G1448	87.964	87.281	36.033	1.00	89.61	G
ATOM	19040	CA	LEU	G1448	88.479	85.973	35.678	1.00	89.61	G
ATOM	19041	CB	LEU	G1448	87.777	85.475	34.412	1.00	45.68	G
ATOM	19042	CG	LEU	G1448	87.073	84.122	34.585	1.00	45.68	G
ATOM	19043	CD1	LEU	G1448	86.575	83.988	36.023	1.00	45.68	G
ATOM	19044	CD2	LEU	G1448	85.922	83.980	33.593	1.00	45.68	G
ATOM	19045	C	LEU	G1448	89.987	85.982	35.483	1.00	89.61	G
ATOM	19046	O	LEU	G1448	90.714	85.288	36.195	1.00	89.61	G
ATOM	19047	N	THR	G1449	90.450	86.771	34.519	1.00	52.05	G
ATOM	19048	CA	THR	G1449	91.877	86.877	34.223	1.00	52.05	G
ATOM	19049	CB	THR	G1449	92.137	88.050	33.277	1.00	22.15	G
ATOM	19050	OG1	THR	G1449	91.815	87.649	31.941	1.00	22.15	G
ATOM	19051	CG2	THR	G1449	93.585	88.500	33.351	1.00	22.15	G
ATOM	19052	C	THR	G1449	92.741	87.048	35.466	1.00	52.05	G
ATOM	19053	O	THR	G1449	93.483	86.146	35.853	1.00	52.05	G
ATOM	19054	N	GLU	G1450	92.640	88.221	36.075	1.00	92.41	G
ATOM	19055	CA	GLU	G1450	93.392	88.549	37.271	1.00	92.41	G
ATOM	19056	CB	GLU	G1450	92.710	89.717	37.973	1.00	100.07	G
ATOM	19057	CG	GLU	G1450	93.553	90.443	38.987	1.00	100.07	G
ATOM	19058	CD	GLU	G1450	92.817	91.635	39.566	1.00	100.07	G
ATOM	19059	OE1	GLU	G1450	92.317	92.457	38.770	1.00	100.07	G
ATOM	19060	OE2	GLU	G1450	92.739	91.755	40.809	1.00	100.07	G
ATOM	19061	C	GLU	G1450	93.446	87.333	38.192	1.00	92.41	G
ATOM	19062	O	GLU	G1450	94.466	87.068	38.827	1.00	92.41	G
ATOM	19063	N	ALA	G1451	92.344	86.590	38.248	1.00	52.37	G
ATOM	19064	CA	ALA	G1451	92.264	85.400	39.090	1.00	52.37	G
ATOM	19065	CB	ALA	G1451	90.887	84.775	38.981	1.00	52.68	G
ATOM	19066	C	ALA	G1451	93.311	84.404	38.649	1.00	52.37	G
ATOM	19067	O	ALA	G1451	94.072	83.887	39.462	1.00	52.37	G
ATOM	19068	N	ALA	G1452	93.334	84.141	37.347	1.00	100.07	G
ATOM	19069	CA	ALA	G1452	94.281	83.209	36.756	1.00	100.07	G
ATOM	19070	CB	ALA	G1452	94.072	83.152	35.257	1.00	98.47	G
ATOM	19071	C	ALA	G1452	95.722	83.604	37.069	1.00	100.07	G
ATOM	19072	O	ALA	G1452	96.505	82.778	37.539	1.00	100.07	G
ATOM	19073	N	ILE	G1453	96.067	84.862	36.800	1.00	68.55	G
ATOM	19074	CA	ILE	G1453	97.412	85.360	37.065	1.00	68.55	G
ATOM	19075	CB	ILE	G1453	97.456	86.915	37.067	1.00	60.83	G
ATOM	19076	CG2	ILE	G1453	98.052	87.445	38.369	1.00	60.83	G
ATOM	19077	CG1	ILE	G1453	98.288	87.416	35.889	1.00	60.83	G
ATOM	19078	CD	ILE	G1453	97.474	87.776	34.683	1.00	60.83	G
ATOM	19079	C	ILE	G1453	97.930	84.839	38.407	1.00	68.55	G
ATOM	19080	O	ILE	G1453	98.951	84.159	38.454	1.00	68.55	G
ATOM	19081	N	ALA	G1454	97.236	85.146	39.499	1.00	38.49	G
ATOM	19082	CA	ALA	G1454	97.692	84.673	40.797	1.00	38.49	G
ATOM	19083	CB	ALA	G1454	97.155	85.567	41.907	1.00	65.03	G
ATOM	19084	C	ALA	G1454	97.256	83.224	41.018	1.00	38.49	G
ATOM	19085	O	ALA	G1454	96.528	82.648	40.192	1.00	38.49	G
ATOM	19086	N	GLY	G1455	97.719	82.635	42.122	1.00	58.71	G
ATOM	19087	CA	GLY	G1455	97.364	81.262	42.437	1.00	58.71	G
ATOM	19088	C	GLY	G1455	95.856	81.160	42.416	1.00	58.71	G
ATOM	19089	O	GLY	G1455	95.300	80.124	42.053	1.00	58.71	G
ATOM	19090	N	ALA	G1456	95.211	82.264	42.800	1.00	33.60	G
ATOM	19091	CA	ALA	G1456	93.757	82.388	42.841	1.00	33.60	G
ATOM	19092	CB	ALA	G1456	93.142	81.836	41.554	1.00	100.07	G
ATOM	19093	C	ALA	G1456	93.187	81.669	44.054	1.00	33.60	G
ATOM	19094	O	ALA	G1456	92.983	80.453	44.036	1.00	33.60	G
ATOM	19095	N	ALA	G1457	92.927	82.443	45.103	1.00	100.07	G
ATOM	19096	CA	ALA	G1457	92.394	81.929	46.363	1.00	100.07	G
ATOM	19097	CB	ALA	G1457	92.020	83.099	47.273	1.00	100.07	G
ATOM	19098	C	ALA	G1457	91.207	80.977	46.226	1.00	100.07	G
ATOM	19099	O	ALA	G1457	90.171	81.176	46.862	1.00	100.07	G
ATOM	19100	N	ALA	G1458	91.384	79.946	45.406	1.00	63.71	G
ATOM	19101	CA	ALA	G1458	90.390	78.911	45.143	1.00	63.71	G
ATOM	19102	CB	ALA	G1458	90.823	77.625	45.831	1.00	100.07	G
ATOM	19103	C	ALA	G1458	88.930	79.201	45.495	1.00	63.71	G
ATOM	19104	O	ALA	G1458	88.146	78.269	45.705	1.00	63.71	G
ATOM	19105	N	ALA	G1459	88.547	80.473	45.536	1.00	100.06	G
ATOM	19106	CA	ALA	G1459	87.183	80.833	45.908	1.00	100.06	G
ATOM	19107	CB	ALA	G1459	86.186	80.331	44.871	1.00	88.02	G
ATOM	19108	C	ALA	G1459	86.914	80.171	47.247	1.00	100.06	G
ATOM	19109	O	ALA	G1459	85.842	80.340	47.831	1.00	100.06	G
ATOM	19110	N	ALA	G1460	87.907	79.414	47.714	1.00	36.14	G
ATOM	19111	CA	ALA	G1460	87.846	78.676	48.972	1.00	36.14	G
ATOM	19112	CB	ALA	G1460	88.012	79.636	50.167	1.00	20.99	G
ATOM	19113	C	ALA	G1460	86.509	77.974	49.056	1.00	36.14	G
ATOM	19114	O	ALA	G1460	86.173	77.381	50.087	1.00	36.14	G

ATOM	19115	N	ALA	G1461	85.768	78.036	47.949	1.00	36.70	G
ATOM	19116	CA	ALA	G1461	84.437	77.480	47.876	1.00	36.70	G
ATOM	19117	CB	ALA	G1461	84.492	76.018	47.512	1.00	5.07	G
ATOM	19118	C	ALA	G1461	83.897	77.683	49.282	1.00	36.70	G
ATOM	19119	O	ALA	G1461	83.163	76.853	49.810	1.00	36.70	G
ATOM	19120	N	ALA	G1462	84.295	78.805	49.881	1.00	56.37	G
ATOM	19121	CA	ALA	G1462	83.898	79.158	51.232	1.00	56.37	G
ATOM	19122	CB	ALA	G1462	84.701	80.357	51.716	1.00	77.87	G
ATOM	19123	C	ALA	G1462	82.417	79.475	51.273	1.00	56.37	G
ATOM	19124	O	ALA	G1462	81.581	78.590	51.416	1.00	56.37	G
ATOM	19125	N	ALA	G1463	82.083	80.745	51.148	1.00	62.00	G
ATOM	19126	CA	ALA	G1463	80.688	81.114	51.170	1.00	62.00	G
ATOM	19127	CB	ALA	G1463	80.483	82.267	52.104	1.00	100.07	G
ATOM	19128	C	ALA	G1463	80.222	81.474	49.768	1.00	62.00	G
ATOM	19129	O	ALA	G1463	79.056	81.234	49.435	1.00	62.00	G
ATOM	19130	N	ALA	G1464	81.143	82.018	48.954	1.00	54.01	G
ATOM	19131	CA	ALA	G1464	80.875	82.449	47.564	1.00	54.01	G
ATOM	19132	CB	ALA	G1464	82.170	82.688	46.839	1.00	35.57	G
ATOM	19133	C	ALA	G1464	79.992	81.514	46.732	1.00	54.01	G
ATOM	19134	O	ALA	G1464	80.483	80.658	45.988	1.00	54.01	G
ATOM	19135	N	ALA	G1465	78.682	81.721	46.875	1.00	55.92	G
ATOM	19136	CA	ALA	G1465	77.657	80.959	46.197	1.00	55.92	G
ATOM	19137	CB	ALA	G1465	76.993	81.823	45.142	1.00	5.07	G
ATOM	19138	C	ALA	G1465	78.212	79.690	45.579	1.00	55.92	G
ATOM	19139	O	ALA	G1465	78.513	79.643	44.388	1.00	55.92	G
ATOM	19140	N	ALA	G1466	78.372	78.669	46.415	1.00	48.53	G
ATOM	19141	CA	ALA	G1466	78.849	77.370	45.961	1.00	48.53	G
ATOM	19142	CB	ALA	G1466	78.959	76.398	47.132	1.00	17.91	G
ATOM	19143	C	ALA	G1466	77.763	76.916	45.008	1.00	48.53	G
ATOM	19144	O	ALA	G1466	77.871	75.884	44.357	1.00	48.53	G
ATOM	19145	N	ALA	G1467	76.691	77.701	44.969	1.00	49.21	G
ATOM	19146	CA	ALA	G1467	75.576	77.437	44.082	1.00	49.21	G
ATOM	19147	CB	ALA	G1467	74.387	78.403	44.388	1.00	5.07	G
ATOM	19148	C	ALA	G1467	76.154	77.697	42.696	1.00	49.21	G
ATOM	19149	O	ALA	G1467	75.820	77.011	41.733	1.00	49.21	G
ATOM	19150	N	ALA	G1468	77.047	78.678	42.609	1.00	39.31	G
ATOM	19151	CA	ALA	G1468	77.659	79.000	41.333	1.00	39.31	G
ATOM	19152	CB	ALA	G1468	78.860	79.932	41.523	1.00	5.07	G
ATOM	19153	C	ALA	G1468	78.098	77.672	40.736	1.00	39.31	G
ATOM	19154	O	ALA	G1468	77.861	77.400	39.559	1.00	39.31	G
ATOM	19155	N	ALA	G1469	78.710	76.832	41.567	1.00	33.40	G
ATOM	19156	CA	ALA	G1469	79.182	75.519	41.129	1.00	33.40	G
ATOM	19157	CB	ALA	G1469	80.513	75.159	41.855	1.00	5.07	G
ATOM	19158	C	ALA	G1469	78.102	74.482	41.429	1.00	33.40	G
ATOM	19159	O	ALA	G1469	78.143	73.350	40.958	1.00	33.40	G
ATOM	19160	N	ALA	G1470	77.128	74.895	42.224	1.00	22.80	G
ATOM	19161	CA	ALA	G1470	76.030	74.030	42.610	1.00	22.80	G
ATOM	19162	CB	ALA	G1470	75.425	73.382	41.369	1.00	27.52	G
ATOM	19163	C	ALA	G1470	76.426	72.962	43.631	1.00	22.80	G
ATOM	19164	O	ALA	G1470	76.241	71.773	43.397	1.00	22.80	G
ATOM	19165	N	ALA	G1471	76.969	73.383	44.764	1.00	50.20	G
ATOM	19166	CA	ALA	G1471	77.356	72.430	45.796	1.00	50.20	G
ATOM	19167	CB	ALA	G1471	78.750	72.764	46.318	1.00	14.43	G
ATOM	19168	C	ALA	G1471	76.313	72.508	46.918	1.00	50.20	G
ATOM	19169	O	ALA	G1471	75.236	73.069	46.705	1.00	50.20	G
ATOM	19170	N	ALA	G1472	76.609	71.935	48.089	1.00	57.44	G
ATOM	19171	CA	ALA	G1472	75.677	71.972	49.224	1.00	57.44	G
ATOM	19172	CB	ALA	G1472	75.747	70.655	50.043	1.00	5.07	G
ATOM	19173	C	ALA	G1472	76.024	73.170	50.110	1.00	57.44	G
ATOM	19174	O	ALA	G1472	77.106	73.231	50.689	1.00	57.44	G
ATOM	19175	N	ALA	G1473	75.094	74.118	50.203	1.00	69.19	G
ATOM	19176	CA	ALA	G1473	75.257	75.347	50.985	1.00	69.19	G
ATOM	19177	CB	ALA	G1473	73.945	76.131	50.946	1.00	5.07	G
ATOM	19178	C	ALA	G1473	75.726	75.158	52.443	1.00	69.19	G
ATOM	19179	O	ALA	G1473	76.029	74.042	52.868	1.00	69.19	G
ATOM	19180	N	ALA	G1474	75.787	76.260	53.197	1.00	43.69	G
ATOM	19181	CA	ALA	G1474	76.214	76.250	54.604	1.00	43.69	G
ATOM	19182	CB	ALA	G1474	76.291	77.664	55.144	1.00	6.14	G
ATOM	19183	C	ALA	G1474	75.376	75.403	55.566	1.00	43.69	G
ATOM	19184	O	ALA	G1474	74.280	75.801	55.998	1.00	43.69	G
ATOM	19185	N	ALA	G1475	75.949	74.243	55.896	1.00	99.97	G
ATOM	19186	CA	ALA	G1475	75.429	73.222	56.817	1.00	99.97	G
ATOM	19187	CB	ALA	G1475	74.459	72.253	56.074	1.00	14.46	G
ATOM	19188	C	ALA	G1475	76.734	72.496	57.176	1.00	99.97	G
ATOM	19189	O	ALA	G1475	77.151	71.618	56.432	1.00	99.97	G
ATOM	19190	N	ALA	G1476	77.387	72.845	58.289	1.00	23.44	G
ATOM	19191	CA	ALA	G1476	78.680	72.205	58.602	1.00	23.44	G
ATOM	19192	CB	ALA	G1476	79.812	73.117	58.124	1.00	100.07	G
ATOM	19193	C	ALA	G1476	79.039	71.665	60.006	1.00	23.44	G
ATOM	19194	O	ALA	G1476	79.881	70.760	60.123	1.00	23.44	G
ATOM	19195	N	ALA	G1477	78.477	72.217	61.076	1.00	57.41	G
ATOM	19196	CA	ALA	G1477	78.820	71.648	62.372	1.00	57.41	G
ATOM	19197	CB	ALA	G1477	78.141	72.403	63.520	1.00	12.23	G
ATOM	19198	C	ALA	G1477	78.257	70.244	62.253	1.00	57.41	G

ATOM	19199	O	ALA G1477	78.959	69.259	62.467	1.00	57.41	G
ATOM	19200	N	ALA G1478	76.991	70.173	61.853	1.00	34.33	G
ATOM	19201	CA	ALA G1478	76.284	68.910	61.684	1.00	34.33	G
ATOM	19202	CB	ALA G1478	74.827	69.193	61.363	1.00	11.12	G
ATOM	19203	C	ALA G1478	76.906	68.019	60.602	1.00	34.33	G
ATOM	19204	O	ALA G1478	76.888	68.345	59.414	1.00	34.33	G
ATOM	19205	N	ALA G1479	77.453	66.884	61.023	1.00	67.27	G
ATOM	19206	CA	ALA G1479	78.089	65.960	60.088	1.00	67.27	G
ATOM	19207	CB	ALA G1479	79.569	66.308	59.935	1.00	100.07	G
ATOM	19208	C	ALA G1479	77.939	64.498	60.510	1.00	67.27	G
ATOM	19209	O	ALA G1479	78.704	63.978	61.328	1.00	67.27	G
ATOM	19210	N	ALA G1480	76.940	63.849	59.926	1.00	78.48	G
ATOM	19211	CA	ALA G1480	76.628	62.451	60.186	1.00	78.48	G
ATOM	19212	CB	ALA G1480	77.094	61.594	59.006	1.00	72.49	G
ATOM	19213	C	ALA G1480	77.147	61.859	61.502	1.00	78.48	G
ATOM	19214	O	ALA G1480	77.068	62.486	62.567	1.00	78.48	G
ATOM	19215	N	ALA G1481	77.675	60.639	61.401	1.00	99.54	G
ATOM	19216	CA	ALA G1481	78.175	59.891	62.548	1.00	99.54	G
ATOM	19217	CB	ALA G1481	79.232	60.691	63.284	1.00	100.07	G
ATOM	19218	C	ALA G1481	76.946	59.658	63.423	1.00	99.54	G
ATOM	19219	O	ALA G1481	77.030	59.519	64.637	1.00	99.54	G
ATOM	19220	N	ALA G1482	75.805	59.609	62.746	1.00	33.83	G
ATOM	19221	CA	ALA G1482	74.488	59.414	63.327	1.00	33.83	G
ATOM	19222	CB	ALA G1482	73.551	58.812	62.304	1.00	100.07	G
ATOM	19223	C	ALA G1482	74.484	58.558	64.541	1.00	33.83	G
ATOM	19224	O	ALA G1482	74.412	59.070	65.659	1.00	33.83	G
ATOM	19225	N	ALA G1483	74.540	57.245	64.327	1.00	86.95	G
ATOM	19226	CA	ALA G1483	74.527	56.313	65.446	1.00	86.95	G
ATOM	19227	CB	ALA G1483	73.295	56.560	66.288	1.00	85.90	G
ATOM	19228	C	ALA G1483	74.582	54.840	65.075	1.00	86.95	G
ATOM	19229	O	ALA G1483	75.328	54.411	64.192	1.00	86.95	G
ATOM	19230	N	ALA G1484	73.761	54.082	65.791	1.00	81.05	G
ATOM	19231	CA	ALA G1484	73.644	52.652	65.624	1.00	81.05	G
ATOM	19232	CB	ALA G1484	74.998	52.004	65.826	1.00	72.34	G
ATOM	19233	C	ALA G1484	72.680	52.195	66.705	1.00	81.05	G
ATOM	19234	O	ALA G1484	72.668	52.769	67.790	1.00	81.05	G
ATOM	19235	N	ALA G1485	71.858	51.188	66.417	1.00	88.89	G
ATOM	19236	CA	ALA G1485	70.935	50.680	67.430	1.00	88.89	G
ATOM	19237	CB	ALA G1485	70.103	49.518	66.871	1.00	26.45	G
ATOM	19238	C	ALA G1485	71.826	50.196	68.569	1.00	88.89	G
ATOM	19239	O	ALA G1485	73.020	49.993	68.371	1.00	88.89	G
ATOM	19240	N	ALA G1486	71.267	50.017	69.758	1.00	95.48	G
ATOM	19241	CA	ALA G1486	72.075	49.561	70.885	1.00	95.48	G
ATOM	19242	CB	ALA G1486	71.175	49.207	72.061	1.00	100.07	G
ATOM	19243	C	ALA G1486	72.937	48.355	70.497	1.00	95.48	G
ATOM	19244	O	ALA G1486	73.989	48.107	71.099	1.00	95.48	G
ATOM	19245	N	ALA G1487	72.482	47.617	69.484	1.00	100.07	G
ATOM	19246	CA	ALA G1487	73.187	46.435	68.988	1.00	100.07	G
ATOM	19247	CB	ALA G1487	72.193	45.452	68.372	1.00	100.07	G
ATOM	19248	C	ALA G1487	74.244	46.825	67.957	1.00	100.07	G
ATOM	19249	O	ALA G1487	75.422	46.495	68.111	1.00	100.07	G
ATOM	19250	N	ALA G1488	73.818	47.509	66.897	1.00	59.31	G
ATOM	19251	CA	ALA G1488	74.750	47.955	65.869	1.00	59.31	G
ATOM	19252	CB	ALA G1488	74.006	48.742	64.770	1.00	34.78	G
ATOM	19253	C	ALA G1488	75.765	48.844	66.594	1.00	59.31	G
ATOM	19254	O	ALA G1488	76.906	49.005	66.158	1.00	59.31	G
ATOM	19255	N	ALA G1489	75.338	49.405	67.722	1.00	100.07	G
ATOM	19256	CA	ALA G1489	76.201	50.256	68.532	1.00	100.07	G
ATOM	19257	CB	ALA G1489	75.360	51.105	69.489	1.00	97.34	G
ATOM	19258	C	ALA G1489	77.161	49.362	69.320	1.00	100.07	G
ATOM	19259	O	ALA G1489	78.147	49.838	69.902	1.00	100.07	G
ATOM	19260	N	ALA G1490	76.863	48.063	69.325	1.00	100.07	G
ATOM	19261	CA	ALA G1490	77.676	47.075	70.026	1.00	100.07	G
ATOM	19262	CB	ALA G1490	76.770	46.071	70.741	1.00	82.08	G
ATOM	19263	C	ALA G1490	78.635	46.341	69.080	1.00	100.07	G
ATOM	19264	O	ALA G1490	79.021	45.198	69.340	1.00	100.07	G
ATOM	19265	N	ALA G1491	79.012	46.997	67.984	1.00	98.76	G
ATOM	19266	CA	ALA G1491	79.936	46.408	67.018	1.00	98.76	G
ATOM	19267	CB	ALA G1491	79.519	46.760	65.593	1.00	65.95	G
ATOM	19268	C	ALA G1491	81.340	46.928	67.290	1.00	98.76	G
ATOM	19269	O	ALA G1491	82.324	46.330	66.856	1.00	98.76	G
ATOM	19270	N	ALA G1492	81.422	48.043	68.013	1.00	100.07	G
ATOM	19271	CA	ALA G1492	82.703	48.659	68.357	1.00	100.07	G
ATOM	19272	CB	ALA G1492	82.473	49.969	69.133	1.00	15.18	G
ATOM	19273	C	ALA G1492	83.563	47.708	69.184	1.00	100.07	G
ATOM	19274	O	ALA G1492	84.652	48.081	69.625	1.00	100.07	G
ATOM	19275	N	ALA G1493	83.063	46.486	69.390	1.00	100.07	G
ATOM	19276	CA	ALA G1493	83.756	45.448	70.164	1.00	100.07	G
ATOM	19277	CB	ALA G1493	83.460	45.612	71.671	1.00	68.43	G
ATOM	19278	C	ALA G1493	83.351	44.041	69.699	1.00	100.07	G
ATOM	19279	O	ALA G1493	82.824	43.917	68.568	1.00	100.07	G
ATOM	19280	OT	ALA G1493	83.576	43.074	70.465	1.00	68.43	G
ATOM	19281	CB	ALA H 1	52.522	69.829	62.812	1.00	39.71	H
ATOM	19282	C	ALA H 1	53.795	68.566	64.520	1.00	51.03	H

ATOM	19283	O	ALA	H	1	54.759	68.983	65.150	1.00	51.03	H
ATOM	19284	N	ALA	H	1	52.654	70.697	65.083	1.00	51.03	H
ATOM	19285	CA	ALA	H	1	52.586	69.458	64.262	1.00	51.03	H
ATOM	19286	N	ALA	H	2	53.742	67.334	64.028	1.00	56.19	H
ATOM	19287	CA	ALA	H	2	54.835	66.385	64.210	1.00	56.19	H
ATOM	19288	CB	ALA	H	2	56.165	66.998	63.720	1.00	43.59	H
ATOM	19289	C	ALA	H	2	54.943	65.977	65.674	1.00	56.19	H
ATOM	19290	O	ALA	H	2	55.549	66.680	66.480	1.00	56.19	H
ATOM	19291	N	PRO	H	3	54.386	64.799	66.014	1.00	100.07	H
ATOM	19292	CD	PRO	H	3	54.440	63.706	65.037	1.00	54.58	H
ATOM	19293	CA	PRO	H	3	54.355	64.231	67.358	1.00	100.07	H
ATOM	19294	CB	PRO	H	3	55.377	63.111	67.233	1.00	54.58	H
ATOM	19295	CG	PRO	H	3	54.985	62.513	65.889	1.00	54.58	H
ATOM	19296	C	PRO	H	3	54.674	65.209	68.465	1.00	100.07	H
ATOM	19297	O	PRO	H	3	53.788	65.921	68.955	1.00	100.07	H
ATOM	19298	N	GLY	H	4	55.940	65.235	68.857	1.00	100.07	H
ATOM	19299	CA	GLY	H	4	56.388	66.134	69.901	1.00	100.07	H
ATOM	19300	C	GLY	H	4	57.618	66.842	69.385	1.00	100.07	H
ATOM	19301	O	GLY	H	4	58.566	67.084	70.128	1.00	100.07	H
ATOM	19302	N	ILE	H	5	57.595	67.166	68.097	1.00	58.01	H
ATOM	19303	CA	ILE	H	5	58.712	67.833	67.456	1.00	58.01	H
ATOM	19304	CB	ILE	H	5	58.255	68.596	66.238	1.00	38.87	H
ATOM	19305	CG2	ILE	H	5	57.357	69.716	66.666	1.00	38.87	H
ATOM	19306	CG1	ILE	H	5	59.476	69.104	65.473	1.00	38.87	H
ATOM	19307	CD	ILE	H	5	59.156	69.849	64.191	1.00	38.87	H
ATOM	19308	C	ILE	H	5	59.415	68.799	68.401	1.00	58.01	H
ATOM	19309	O	ILE	H	5	60.648	68.842	68.454	1.00	58.01	H
ATOM	19310	N	ASP	H	6	58.639	69.583	69.142	1.00	43.17	H
ATOM	19311	CA	ASP	H	6	59.235	70.510	70.093	1.00	43.17	H
ATOM	19312	CB	ASP	H	6	58.179	71.014	71.072	1.00	72.64	H
ATOM	19313	CG	ASP	H	6	57.055	71.745	70.377	1.00	72.64	H
ATOM	19314	OD1	ASP	H	6	57.316	72.816	69.795	1.00	72.64	H
ATOM	19315	OD2	ASP	H	6	55.913	71.249	70.400	1.00	72.64	H
ATOM	19316	C	ASP	H	6	60.282	69.699	70.833	1.00	43.17	H
ATOM	19317	O	ASP	H	6	61.473	69.988	70.780	1.00	43.17	H
ATOM	19318	N	ALA	H	7	59.818	68.647	71.488	1.00	42.82	H
ATOM	19319	CA	ALA	H	7	60.694	67.775	72.245	1.00	42.82	H
ATOM	19320	CB	ALA	H	7	59.940	66.537	72.694	1.00	100.07	H
ATOM	19321	C	ALA	H	7	61.904	67.371	71.439	1.00	42.82	H
ATOM	19322	O	ALA	H	7	62.998	67.258	71.982	1.00	42.82	H
ATOM	19323	N	LEU	H	8	61.715	67.144	70.147	1.00	59.62	H
ATOM	19324	CA	LEU	H	8	62.841	66.745	69.321	1.00	59.62	H
ATOM	19325	CB	LEU	H	8	62.414	66.570	67.865	1.00	61.05	H
ATOM	19326	CG	LEU	H	8	61.357	65.501	67.607	1.00	61.05	H
ATOM	19327	CD1	LEU	H	8	61.234	65.303	66.115	1.00	61.05	H
ATOM	19328	CD2	LEU	H	8	61.738	64.194	68.278	1.00	61.05	H
ATOM	19329	C	LEU	H	8	63.972	67.767	69.419	1.00	59.62	H
ATOM	19330	O	LEU	H	8	65.135	67.406	69.634	1.00	59.62	H
ATOM	19331	N	PHE	H	9	63.648	69.046	69.262	1.00	30.31	H
ATOM	19332	CA	PHE	H	9	64.691	70.053	69.369	1.00	30.31	H
ATOM	19333	CB	PHE	H	9	64.151	71.430	68.962	1.00	27.21	H
ATOM	19334	CG	PHE	H	9	63.535	71.453	67.590	1.00	27.21	H
ATOM	19335	CD1	PHE	H	9	62.165	71.315	67.423	1.00	27.21	H
ATOM	19336	CD2	PHE	H	9	64.334	71.577	66.456	1.00	27.21	H
ATOM	19337	CE1	PHE	H	9	61.596	71.299	66.145	1.00	27.21	H
ATOM	19338	CE2	PHE	H	9	63.771	71.558	65.165	1.00	27.21	H
ATOM	19339	CZ	PHE	H	9	62.395	71.418	65.016	1.00	27.21	H
ATOM	19340	C	PHE	H	9	65.149	70.013	70.832	1.00	30.31	H
ATOM	19341	O	PHE	H	9	66.134	70.643	71.229	1.00	30.31	H
ATOM	19342	N	GLY	H	10	64.414	69.257	71.637	1.00	44.07	H
ATOM	19343	CA	GLY	H	10	64.799	69.114	73.018	1.00	44.07	H
ATOM	19344	C	GLY	H	10	66.137	68.430	72.907	1.00	44.07	H
ATOM	19345	O	GLY	H	10	67.159	68.988	73.274	1.00	44.07	H
ATOM	19346	N	ALA	H	11	66.130	67.229	72.343	1.00	67.78	H
ATOM	19347	CA	ALA	H	11	67.351	66.448	72.171	1.00	67.78	H
ATOM	19348	CB	ALA	H	11	67.039	65.161	71.384	1.00	84.24	H
ATOM	19349	C	ALA	H	11	68.497	67.220	71.498	1.00	67.78	H
ATOM	19350	O	ALA	H	11	69.288	67.877	72.177	1.00	67.78	H
ATOM	19351	N	ALA	H	12	68.575	67.138	70.170	1.00	73.74	H
ATOM	19352	CA	ALA	H	12	69.628	67.792	69.388	1.00	73.74	H
ATOM	19353	CB	ALA	H	12	69.314	67.653	67.913	1.00	70.65	H
ATOM	19354	C	ALA	H	12	69.913	69.262	69.713	1.00	73.74	H
ATOM	19355	O	ALA	H	12	69.068	69.965	70.265	1.00	73.74	H
ATOM	19356	N	ALA	H	13	71.115	69.717	69.362	1.00	68.23	H
ATOM	19357	CA	ALA	H	13	71.519	71.102	69.594	1.00	68.23	H
ATOM	19358	CB	ALA	H	13	73.045	71.224	69.589	1.00	5.07	H
ATOM	19359	C	ALA	H	13	70.931	71.972	68.493	1.00	68.23	H
ATOM	19360	O	ALA	H	13	69.835	72.522	68.637	1.00	68.23	H
ATOM	19361	N	ALA	H	14	71.666	72.079	67.389	1.00	67.76	H
ATOM	19362	CA	ALA	H	14	71.243	72.877	66.245	1.00	67.76	H
ATOM	19363	CB	ALA	H	14	72.353	72.913	65.208	1.00	33.84	H
ATOM	19364	C	ALA	H	14	69.964	72.336	65.615	1.00	67.76	H
ATOM	19365	O	ALA	H	14	69.936	71.203	65.147	1.00	67.76	H
ATOM	19366	N	ALA	H	15	68.905	73.143	65.615	1.00	28.35	H

ATOM	19367	CA	ALA	H	15	67.640	72.738	65.010	1.00	28.35	H
ATOM	19368	CB	ALA	H	15	66.719	73.938	64.818	1.00	45.45	H
ATOM	19369	C	ALA	H	15	68.041	72.202	63.668	1.00	28.35	H
ATOM	19370	O	ALA	H	15	67.796	71.038	63.352	1.00	28.35	H
ATOM	19371	N	ALA	H	16	68.684	73.076	62.891	1.00	100.07	H
ATOM	19372	CA	ALA	H	16	69.156	72.754	61.548	1.00	100.07	H
ATOM	19373	CB	ALA	H	16	70.136	73.856	61.037	1.00	5.07	H
ATOM	19374	C	ALA	H	16	69.827	71.386	61.567	1.00	100.07	H
ATOM	19375	O	ALA	H	16	69.650	70.584	60.661	1.00	100.07	H
ATOM	19376	N	ALA	H	17	70.578	71.105	62.620	1.00	67.26	H
ATOM	19377	CA	ALA	H	17	71.244	69.818	62.723	1.00	67.26	H
ATOM	19378	CB	ALA	H	17	72.139	69.791	63.955	1.00	100.07	H
ATOM	19379	C	ALA	H	17	70.231	68.669	62.776	1.00	67.26	H
ATOM	19380	O	ALA	H	17	70.162	67.869	61.846	1.00	67.26	H
ATOM	19381	N	ALA	H	18	69.449	68.598	63.855	1.00	92.49	H
ATOM	19382	CA	ALA	H	18	68.444	67.543	64.034	1.00	92.49	H
ATOM	19383	CB	ALA	H	18	67.193	68.094	64.718	1.00	34.88	H
ATOM	19384	C	ALA	H	18	68.050	66.915	62.719	1.00	92.49	H
ATOM	19385	O	ALA	H	18	68.233	65.717	62.519	1.00	92.49	H
ATOM	19386	N	ALA	H	19	67.511	67.734	61.823	1.00	50.11	H
ATOM	19387	CA	ALA	H	19	67.085	67.250	60.525	1.00	50.11	H
ATOM	19388	CB	ALA	H	19	66.963	68.409	59.544	1.00	21.38	H
ATOM	19389	C	ALA	H	19	68.078	66.203	60.029	1.00	50.11	H
ATOM	19390	O	ALA	H	19	67.683	65.163	59.518	1.00	50.11	H
ATOM	19391	N	ALA	H	20	69.366	66.459	60.203	1.00	34.22	H
ATOM	19392	CA	ALA	H	20	70.369	65.489	59.783	1.00	34.22	H
ATOM	19393	CB	ALA	H	20	71.770	65.983	60.147	1.00	54.33	H
ATOM	19394	C	ALA	H	20	70.096	64.108	60.425	1.00	34.22	H
ATOM	19395	O	ALA	H	20	69.563	63.217	59.763	1.00	34.22	H
ATOM	19396	N	ALA	H	21	70.441	63.927	61.702	1.00	23.83	H
ATOM	19397	CA	ALA	H	21	70.219	62.640	62.373	1.00	23.83	H
ATOM	19398	CB	ALA	H	21	70.144	62.823	63.885	1.00	21.97	H
ATOM	19399	C	ALA	H	21	68.958	61.933	61.873	1.00	23.83	H
ATOM	19400	O	ALA	H	21	69.024	60.778	61.456	1.00	23.83	H
ATOM	19401	N	ALA	H	22	67.818	62.620	61.897	1.00	41.15	H
ATOM	19402	CA	ALA	H	22	66.572	62.007	61.438	1.00	41.15	H
ATOM	19403	CB	ALA	H	22	65.391	62.947	61.666	1.00	5.07	H
ATOM	19404	C	ALA	H	22	66.674	61.650	59.963	1.00	41.15	H
ATOM	19405	O	ALA	H	22	66.083	60.678	59.500	1.00	41.15	H
ATOM	19406	N	ALA	H	23	67.429	62.436	59.217	1.00	29.93	H
ATOM	19407	CA	ALA	H	23	67.577	62.169	57.803	1.00	29.93	H
ATOM	19408	CB	ALA	H	23	68.173	63.370	57.107	1.00	91.10	H
ATOM	19409	C	ALA	H	23	68.458	60.954	57.593	1.00	29.93	H
ATOM	19410	O	ALA	H	23	68.223	60.166	56.683	1.00	29.93	H
ATOM	19411	N	ALA	H	24	69.475	60.805	58.439	1.00	62.52	H
ATOM	19412	CA	ALA	H	24	70.398	59.678	58.335	1.00	62.52	H
ATOM	19413	CB	ALA	H	24	71.643	59.941	59.164	1.00	67.26	H
ATOM	19414	C	ALA	H	24	69.744	58.362	58.759	1.00	62.52	H
ATOM	19415	O	ALA	H	24	69.883	57.358	58.069	1.00	62.52	H
ATOM	19416	N	ALA	H	25	69.033	58.359	59.886	1.00	37.92	H
ATOM	19417	CA	ALA	H	25	68.360	57.134	60.337	1.00	37.92	H
ATOM	19418	CB	ALA	H	25	67.632	57.366	61.694	1.00	5.07	H
ATOM	19419	C	ALA	H	25	67.367	56.662	59.259	1.00	37.92	H
ATOM	19420	O	ALA	H	25	67.464	55.536	58.764	1.00	37.92	H
ATOM	19421	N	ALA	H	26	66.415	57.515	58.891	1.00	59.67	H
ATOM	19422	CA	ALA	H	26	65.459	57.132	57.864	1.00	59.67	H
ATOM	19423	CB	ALA	H	26	64.643	58.327	57.408	1.00	32.00	H
ATOM	19424	C	ALA	H	26	66.332	56.627	56.739	1.00	59.67	H
ATOM	19425	O	ALA	H	26	65.960	55.704	56.015	1.00	59.67	H
ATOM	19426	N	ALA	H	27	67.509	57.238	56.616	1.00	67.09	H
ATOM	19427	CA	ALA	H	27	68.477	56.850	55.599	1.00	67.09	H
ATOM	19428	CB	ALA	H	27	69.372	58.038	55.218	1.00	25.22	H
ATOM	19429	C	ALA	H	27	69.316	55.721	56.185	1.00	67.09	H
ATOM	19430	O	ALA	H	27	70.543	55.811	56.247	1.00	67.09	H
ATOM	19431	N	ALA	H	28	68.629	54.670	56.635	1.00	80.50	H
ATOM	19432	CA	ALA	H	28	69.256	53.486	57.227	1.00	80.50	H
ATOM	19433	CB	ALA	H	28	69.983	53.853	58.523	1.00	66.64	H
ATOM	19434	C	ALA	H	28	68.169	52.462	57.518	1.00	80.50	H
ATOM	19435	O	ALA	H	28	68.428	51.264	57.602	1.00	80.50	H
ATOM	19436	N	ALA	H	29	66.947	52.955	57.672	1.00	63.90	H
ATOM	19437	CA	ALA	H	29	65.804	52.103	57.959	1.00	63.90	H
ATOM	19438	CB	ALA	H	29	64.956	52.734	59.078	1.00	65.39	H
ATOM	19439	C	ALA	H	29	64.960	51.897	56.699	1.00	63.90	H
ATOM	19440	O	ALA	H	29	64.171	50.953	56.606	1.00	63.90	H
ATOM	19441	N	ALA	H	30	65.135	52.784	55.727	1.00	100.07	H
ATOM	19442	CA	ALA	H	30	64.377	52.699	54.489	1.00	100.07	H
ATOM	19443	CB	ALA	H	30	64.407	54.042	53.767	1.00	55.40	H
ATOM	19444	C	ALA	H	30	64.899	51.601	53.569	1.00	100.07	H
ATOM	19445	O	ALA	H	30	64.514	51.537	52.400	1.00	100.07	H
ATOM	19446	N	ALA	H	31	65.766	50.737	54.092	1.00	100.07	H
ATOM	19447	CA	ALA	H	31	66.330	49.651	53.286	1.00	100.07	H
ATOM	19448	CB	ALA	H	31	67.609	50.132	52.591	1.00	100.07	H
ATOM	19449	C	ALA	H	31	66.619	48.385	54.098	1.00	100.07	H
ATOM	19450	O	ALA	H	31	67.592	47.675	53.834	1.00	100.07	H

ATOM	19451	N	ALA	H	32	65.760	48.101	55.072	1.00	46.43	H
ATOM	19452	CA	ALA	H	32	65.922	46.933	55.929	1.00	46.43	H
ATOM	19453	CB	ALA	H	32	67.351	46.893	56.512	1.00	27.57	H
ATOM	19454	C	ALA	H	32	64.908	46.999	57.060	1.00	46.43	H
ATOM	19455	O	ALA	H	32	65.258	47.360	58.181	1.00	46.43	H
ATOM	19456	N	ALA	H	33	63.655	46.665	56.773	1.00	100.07	H
ATOM	19457	CA	ALA	H	33	62.630	46.693	57.810	1.00	100.07	H
ATOM	19458	CB	ALA	H	33	61.387	45.943	57.342	1.00	41.38	H
ATOM	19459	C	ALA	H	33	63.181	46.042	59.079	1.00	100.07	H
ATOM	19460	O	ALA	H	33	63.018	46.567	60.186	1.00	100.07	H
ATOM	19461	N	ALA	H	34	63.849	44.903	58.891	1.00	55.51	H
ATOM	19462	CA	ALA	H	34	64.431	44.123	59.979	1.00	55.51	H
ATOM	19463	CB	ALA	H	34	65.037	42.835	59.414	1.00	53.39	H
ATOM	19464	C	ALA	H	34	65.468	44.852	60.836	1.00	55.51	H
ATOM	19465	O	ALA	H	34	66.579	44.349	61.025	1.00	55.51	H
ATOM	19466	N	ALA	H	35	65.098	46.029	61.348	1.00	95.30	H
ATOM	19467	CA	ALA	H	35	65.960	46.837	62.222	1.00	95.30	H
ATOM	19468	CB	ALA	H	35	66.767	47.856	61.413	1.00	52.87	H
ATOM	19469	C	ALA	H	35	65.088	47.558	63.248	1.00	95.30	H
ATOM	19470	O	ALA	H	35	64.663	46.962	64.237	1.00	95.30	H
ATOM	19471	N	ALA	H	36	64.818	48.837	63.010	1.00	99.95	H
ATOM	19472	CA	ALA	H	36	63.989	49.631	63.914	1.00	99.95	H
ATOM	19473	CB	ALA	H	36	62.532	49.184	63.809	1.00	40.22	H
ATOM	19474	C	ALA	H	36	64.454	49.525	65.364	1.00	99.95	H
ATOM	19475	O	ALA	H	36	65.555	49.043	65.643	1.00	99.95	H
ATOM	19476	N	ALA	H	37	63.601	49.994	66.275	1.00	51.63	H
ATOM	19477	CA	ALA	H	37	63.843	49.964	67.726	1.00	51.63	H
ATOM	19478	CB	ALA	H	37	64.909	50.984	68.136	1.00	9.23	H
ATOM	19479	C	ALA	H	37	62.512	50.310	68.368	1.00	51.63	H
ATOM	19480	O	ALA	H	37	62.411	50.490	69.580	1.00	51.63	H
ATOM	19481	N	ALA	H	38	61.498	50.420	67.514	1.00	100.07	H
ATOM	19482	CA	ALA	H	38	60.141	50.717	67.937	1.00	100.07	H
ATOM	19483	CB	ALA	H	38	59.458	51.636	66.912	1.00	19.88	H
ATOM	19484	C	ALA	H	38	59.430	49.365	68.017	1.00	100.07	H
ATOM	19485	O	ALA	H	38	58.434	49.122	67.329	1.00	100.07	H
ATOM	19486	N	ALA	H	39	59.976	48.485	68.859	1.00	99.59	H
ATOM	19487	CA	ALA	H	39	59.450	47.136	69.066	1.00	99.59	H
ATOM	19488	CB	ALA	H	39	60.207	46.452	70.199	1.00	100.07	H
ATOM	19489	C	ALA	H	39	57.964	47.136	69.372	1.00	99.59	H
ATOM	19490	O	ALA	H	39	57.538	47.648	70.404	1.00	99.59	H
ATOM	19491	N	ALA	H	40	57.188	46.553	68.464	1.00	100.07	H
ATOM	19492	CA	ALA	H	40	55.741	46.468	68.604	1.00	100.07	H
ATOM	19493	CB	ALA	H	40	55.374	46.201	70.059	1.00	35.94	H
ATOM	19494	C	ALA	H	40	55.027	47.722	68.096	1.00	100.07	H
ATOM	19495	O	ALA	H	40	54.747	47.842	66.901	1.00	100.07	H
ATOM	19496	N	ALA	H	41	54.735	48.650	69.006	1.00	84.13	H
ATOM	19497	CA	ALA	H	41	54.039	49.892	68.663	1.00	84.13	H
ATOM	19498	CB	ALA	H	41	53.613	50.614	69.949	1.00	50.94	H
ATOM	19499	C	ALA	H	41	54.893	50.816	67.786	1.00	84.13	H
ATOM	19500	O	ALA	H	41	56.018	51.167	68.166	1.00	84.13	H
ATOM	19501	N	ALA	H	42	54.353	51.212	66.624	1.00	49.03	H
ATOM	19502	CA	ALA	H	42	55.091	52.085	65.699	1.00	49.03	H
ATOM	19503	CB	ALA	H	42	56.233	51.292	65.061	1.00	71.52	H
ATOM	19504	C	ALA	H	42	54.326	52.850	64.596	1.00	49.03	H
ATOM	19505	O	ALA	H	42	54.745	53.948	64.208	1.00	49.03	H
ATOM	19506	N	ALA	H	43	53.229	52.297	64.080	1.00	68.08	H
ATOM	19507	CA	ALA	H	43	52.498	53.003	63.021	1.00	68.08	H
ATOM	19508	CB	ALA	H	43	53.404	53.132	61.793	1.00	52.55	H
ATOM	19509	C	ALA	H	43	51.128	52.421	62.609	1.00	68.08	H
ATOM	19510	O	ALA	H	43	50.731	51.353	63.076	1.00	68.08	H
ATOM	19511	N	ALA	H	44	50.418	53.133	61.730	1.00	52.56	H
ATOM	19512	CA	ALA	H	44	49.100	52.706	61.255	1.00	52.56	H
ATOM	19513	CB	ALA	H	44	48.051	53.052	62.295	1.00	71.87	H
ATOM	19514	C	ALA	H	44	48.718	53.328	59.901	1.00	52.56	H
ATOM	19515	O	ALA	H	44	49.588	53.779	59.157	1.00	52.56	H
ATOM	19516	N	ALA	H	45	47.420	53.336	59.585	1.00	84.52	H
ATOM	19517	CA	ALA	H	45	46.900	53.905	58.331	1.00	84.52	H
ATOM	19518	CB	ALA	H	45	47.653	53.301	57.120	1.00	45.12	H
ATOM	19519	C	ALA	H	45	45.370	53.702	58.184	1.00	84.52	H
ATOM	19520	O	ALA	H	45	44.638	53.805	59.165	1.00	84.52	H
ATOM	19521	N	ALA	H	46	44.886	53.429	56.970	1.00	70.00	H
ATOM	19522	CA	ALA	H	46	43.448	53.227	56.752	1.00	70.00	H
ATOM	19523	CB	ALA	H	46	42.694	54.532	57.010	1.00	86.58	H
ATOM	19524	C	ALA	H	46	43.074	52.670	55.363	1.00	70.00	H
ATOM	19525	O	ALA	H	46	43.944	52.185	54.627	1.00	70.00	H
ATOM	19526	N	ALA	H	47	41.776	52.747	55.032	1.00	63.06	H
ATOM	19527	CA	ALA	H	47	41.202	52.255	53.766	1.00	63.06	H
ATOM	19528	CB	ALA	H	47	42.101	52.641	52.585	1.00	66.74	H
ATOM	19529	C	ALA	H	47	41.017	50.730	53.825	1.00	63.06	H
ATOM	19530	O	ALA	H	47	40.392	50.114	52.953	1.00	63.06	H
ATOM	19531	N	ALA	H	48	41.568	50.158	54.890	1.00	96.53	H
ATOM	19532	CA	ALA	H	48	41.557	48.733	55.200	1.00	96.53	H
ATOM	19533	CB	ALA	H	48	41.864	47.909	53.958	1.00	15.80	H
ATOM	19534	C	ALA	H	48	42.695	48.626	56.215	1.00	96.53	H

ATOM	19535	O	ALA	H	48	43.243	47.555	56.457	1.00	96.53	H
ATOM	19536	N	ALA	H	49	43.023	49.786	56.787	1.00	100.07	H
ATOM	19537	CA	ALA	H	49	44.075	50.006	57.784	1.00	100.07	H
ATOM	19538	CB	ALA	H	49	43.541	50.893	58.906	1.00	61.55	H
ATOM	19539	C	ALA	H	49	44.781	48.812	58.398	1.00	100.07	H
ATOM	19540	O	ALA	H	49	44.331	48.258	59.402	1.00	100.07	H
ATOM	19541	N	ALA	H	50	45.908	48.442	57.802	1.00	80.00	H
ATOM	19542	CA	ALA	H	50	46.717	47.341	58.297	1.00	80.00	H
ATOM	19543	CB	ALA	H	50	47.029	46.358	57.169	1.00	67.81	H
ATOM	19544	C	ALA	H	50	47.990	47.993	58.809	1.00	80.00	H
ATOM	19545	O	ALA	H	50	47.961	49.126	59.282	1.00	80.00	H
ATOM	19546	N	ALA	H	51	49.106	47.285	58.706	1.00	78.65	H
ATOM	19547	CA	ALA	H	51	50.387	47.819	59.157	1.00	78.65	H
ATOM	19548	CB	ALA	H	51	51.431	46.692	59.217	1.00	72.47	H
ATOM	19549	C	ALA	H	51	50.857	48.926	58.213	1.00	78.65	H
ATOM	19550	O	ALA	H	51	50.054	49.469	57.449	1.00	78.65	H
ATOM	19551	N	ALA	H	52	52.148	49.260	58.303	1.00	93.82	H
ATOM	19552	CA	ALA	H	52	52.808	50.266	57.464	1.00	93.82	H
ATOM	19553	CB	ALA	H	52	52.040	50.451	56.148	1.00	75.48	H
ATOM	19554	C	ALA	H	52	53.123	51.638	58.068	1.00	93.82	H
ATOM	19555	O	ALA	H	52	53.219	51.798	59.284	1.00	93.82	H
ATOM	19556	N	GLU	H	53	53.291	52.601	57.160	1.00	81.65	H
ATOM	19557	CA	GLU	H	53	53.640	54.004	57.405	1.00	81.65	H
ATOM	19558	CB	GLU	H	53	53.868	54.317	58.887	1.00	97.30	H
ATOM	19559	CG	GLU	H	53	54.489	55.703	59.149	1.00	97.30	H
ATOM	19560	CD	GLU	H	53	53.718	56.848	58.496	1.00	97.30	H
ATOM	19561	OE1	GLU	H	53	52.522	57.009	58.810	1.00	97.30	H
ATOM	19562	OE2	GLU	H	53	54.306	57.588	57.675	1.00	97.30	H
ATOM	19563	C	GLU	H	53	54.945	54.192	56.656	1.00	81.65	H
ATOM	19564	O	GLU	H	53	55.997	54.404	57.259	1.00	81.65	H
ATOM	19565	N	ALA	H	54	54.871	54.079	55.337	1.00	61.43	H
ATOM	19566	CA	ALA	H	54	56.047	54.226	54.500	1.00	61.43	H
ATOM	19567	CB	ALA	H	54	55.625	54.505	53.064	1.00	73.24	H
ATOM	19568	C	ALA	H	54	57.006	55.317	55.001	1.00	61.43	H
ATOM	19569	O	ALA	H	54	58.009	55.002	55.635	1.00	61.43	H
ATOM	19570	N	ALA	H	55	56.699	56.586	54.727	1.00	100.07	H
ATOM	19571	CA	ALA	H	55	57.539	57.724	55.136	1.00	100.07	H
ATOM	19572	CB	ALA	H	55	56.648	58.897	55.558	1.00	42.52	H
ATOM	19573	C	ALA	H	55	58.573	57.431	56.240	1.00	100.07	H
ATOM	19574	O	ALA	H	55	58.264	57.504	57.431	1.00	100.07	H
ATOM											

1966-1972

ATOM	19619	O	ALA	H	64	64.292	58.912	70.533	1.00	50.52	H
ATOM	19620	N	ALA	H	65	64.295	61.016	69.733	1.00	83.44	H
ATOM	19621	CA	ALA	H	65	63.781	61.577	70.977	1.00	83.44	H
ATOM	19622	CB	ALA	H	65	63.433	63.049	70.803	1.00	100.07	H
ATOM	19623	C	ALA	H	65	62.533	60.750	71.228	1.00	83.44	H
ATOM	19624	O	ALA	H	65	61.431	61.076	70.774	1.00	83.44	H
ATOM	19625	N	ALA	H	66	62.751	59.651	71.935	1.00	86.00	H
ATOM	19626	CA	ALA	H	66	61.715	58.693	72.253	1.00	86.00	H
ATOM	19627	CB	ALA	H	66	60.901	58.374	71.005	1.00	100.07	H
ATOM	19628	C	ALA	H	66	62.445	57.445	72.734	1.00	86.00	H
ATOM	19629	O	ALA	H	66	62.942	57.403	73.866	1.00	86.00	H
ATOM	19630	N	ALA	H	67	62.520	56.438	71.865	1.00	82.79	H
ATOM	19631	CA	ALA	H	67	63.205	55.201	72.202	1.00	82.79	H
ATOM	19632	CB	ALA	H	67	63.423	54.379	70.958	1.00	39.56	H
ATOM	19633	C	ALA	H	67	64.540	55.552	72.857	1.00	82.79	H
ATOM	19634	O	ALA	H	67	65.126	54.742	73.569	1.00	82.79	H
ATOM	19635	N	ALA	H	68	65.006	56.771	72.600	1.00	64.69	H
ATOM	19636	CA	ALA	H	68	66.236	57.296	73.183	1.00	64.69	H
ATOM	19637	CB	ALA	H	68	66.078	57.392	74.701	1.00	5.07	H
ATOM	19638	C	ALA	H	68	67.518	56.544	72.838	1.00	64.69	H
ATOM	19639	O	ALA	H	68	68.553	56.726	73.491	1.00	64.69	H
ATOM	19640	N	ALA	H	69	67.459	55.703	71.816	1.00	71.17	H
ATOM	19641	CA	ALA	H	69	68.642	54.960	71.415	1.00	71.17	H
ATOM	19642	CB	ALA	H	69	68.243	53.644	70.763	1.00	73.03	H
ATOM	19643	C	ALA	H	69	69.430	55.821	70.440	1.00	71.17	H
ATOM	19644	O	ALA	H	69	69.299	57.047	70.439	1.00	71.17	H
ATOM	19645	N	ALA	H	70	70.240	55.173	69.609	1.00	59.62	H
ATOM	19646	CA	ALA	H	70	71.061	55.867	68.625	1.00	59.62	H
ATOM	19647	CB	ALA	H	70	70.199	56.829	67.821	1.00	60.85	H
ATOM	19648	C	ALA	H	70	72.193	56.611	69.332	1.00	59.62	H
ATOM	19649	O	ALA	H	70	72.417	56.414	70.525	1.00	59.62	H
ATOM	19650	N	ALA	H	71	72.899	57.468	68.606	1.00	65.27	H
ATOM	19651	CA	ALA	H	71	74.010	58.207	69.185	1.00	65.27	H
ATOM	19652	CB	ALA	H	71	75.305	57.465	68.937	1.00	100.07	H
ATOM	19653	C	ALA	H	71	74.125	59.628	68.657	1.00	65.27	H
ATOM	19654	O	ALA	H	71	73.112	60.281	68.398	1.00	65.27	H
ATOM	19655	N	ALA	H	72	75.365	60.098	68.493	1.00	55.71	H
ATOM	19656	CA	ALA	H	72	75.622	61.460	68.022	1.00	55.71	H
ATOM	19657	CB	ALA	H	72	76.227	62.296	69.154	1.00	73.67	H
ATOM	19658	C	ALA	H	72	76.492	61.582	66.778	1.00	55.71	H
ATOM	19659	O	ALA	H	72	76.034	61.327	65.658	1.00	55.71	H
ATOM	19660	N	ALA	H	73	77.739	62.008	66.975	1.00	40.72	H
ATOM	19661	CA	ALA	H	73	78.672	62.189	65.864	1.00	40.72	H
ATOM	19662	CB	ALA	H	73	78.452	63.541	65.212	1.00	79.62	H
ATOM	19663	C	ALA	H	73	80.116	62.065	66.324	1.00	40.72	H
ATOM	19664	O	ALA	H	73	80.528	62.754	67.256	1.00	40.72	H
ATOM	19665	N	ALA	H	74	80.868	61.198	65.639	1.00	95.89	H
ATOM	19666	CA	ALA	H	74	82.272	60.867	65.924	1.00	95.89	H
ATOM	19667	CB	ALA	H	74	82.966	61.962	66.744	1.00	15.50	H
ATOM	19668	C	ALA	H	74	82.245	59.564	66.719	1.00	95.89	H
ATOM	19669	O	ALA	H	74	83.108	59.311	67.558	1.00	95.89	H
ATOM	19670	N	ALA	H	75	81.226	58.751	66.446	1.00	100.07	H
ATOM	19671	CA	ALA	H	75	81.038	57.466	67.111	1.00	100.07	H
ATOM	19672	CB	ALA	H	75	79.548	57.116	67.165	1.00	44.27	H
ATOM	19673	C	ALA	H	75	81.807	56.382	66.365	1.00	100.07	H
ATOM	19674	O	ALA	H	75	82.995	56.186	66.613	1.00	100.07	H
ATOM	19675	N	ALA	H	76	81.128	55.685	65.453	1.00	41.38	H
ATOM	19676	CA	ALA	H	76	81.744	54.626	64.657	1.00	41.38	H
ATOM	19677	CB	ALA	H	76	80.833	54.277	63.498	1.00	45.25	H
ATOM	19678	C	ALA	H	76	83.119	55.050	64.127	1.00	41.38	H
ATOM	19679	O	ALA	H	76	83.894	54.221	63.631	1.00	41.38	H
ATOM	19680	N	ALA	H	77	83.399	56.350	64.237	1.00	99.89	H
ATOM	19681	CA	ALA	H	77	84.654	56.951	63.790	1.00	99.89	H
ATOM	19682	CB	ALA	H	77	85.851	56.182	64.363	1.00	75.98	H
ATOM	19683	C	ALA	H	77	84.698	56.947	62.268	1.00	99.89	H
ATOM	19684	O	ALA	H	77	84.543	57.988	61.622	1.00	99.89	H
ATOM	19685	N	ALA	H	78	84.908	55.765	61.703	1.00	99.61	H
ATOM	19686	CA	ALA	H	78	84.956	55.616	60.260	1.00	99.61	H
ATOM	19687	CB	ALA	H	78	86.239	54.888	59.836	1.00	60.65	H
ATOM	19688	C	ALA	H	78	83.735	54.831	59.809	1.00	99.61	H
ATOM	19689	O	ALA	H	78	83.415	53.774	60.368	1.00	99.61	H
ATOM	19690	N	ALA	H	79	83.040	55.369	58.811	1.00	78.33	H
ATOM	19691	CA	ALA	H	79	81.877	54.695	58.264	1.00	78.33	H
ATOM	19692	CB	ALA	H	79	81.225	55.554	57.189	1.00	66.29	H
ATOM	19693	C	ALA	H	79	82.466	53.427	57.665	1.00	78.33	H
ATOM	19694	O	ALA	H	79	81.750	52.492	57.294	1.00	78.33	H
ATOM	19695	N	ALA	H	80	83.795	53.427	57.577	1.00	92.64	H
ATOM	19696	CA	ALA	H	80	84.566	52.306	57.065	1.00	92.64	H
ATOM	19697	CB	ALA	H	80	86.038	52.504	57.404	1.00	47.94	H
ATOM	19698	C	ALA	H	80	84.022	51.080	57.775	1.00	92.64	H
ATOM	19699	O	ALA	H	80	83.921	49.995	57.205	1.00	92.64	H
ATOM	19700	N	ALA	H	81	83.663	51.283	59.035	1.00	78.72	H
ATOM	19701	CA	ALA	H	81	83.107	50.229	59.862	1.00	78.72	H
ATOM	19702	CB	ALA	H	81	83.515	50.441	61.303	1.00	100.07	H

ATOM	19703	C	ALA	H	81	81.590	50.251	59.743	1.00	88.72	H
ATOM	19704	O	ALA	H	81	80.924	49.253	60.012	1.00	88.72	H
ATOM	19705	N	ALA	H	82	81.046	51.399	59.347	1.00	89.31	H
ATOM	19706	CA	ALA	H	82	79.603	51.533	59.198	1.00	89.31	H
ATOM	19707	CB	ALA	H	82	79.214	52.909	58.635	1.00	38.43	H
ATOM	19708	C	ALA	H	82	79.056	50.433	58.295	1.00	99.31	H
ATOM	19709	O	ALA	H	82	78.000	49.872	58.574	1.00	99.31	H
ATOM	19710	N	ALA	H	83	79.767	50.108	57.221	1.00	83.69	H
ATOM	19711	CA	ALA	H	83	79.297	49.054	56.323	1.00	83.69	H
ATOM	19712	CB	ALA	H	83	80.126	49.050	55.038	1.00	88.80	H
ATOM	19713	C	ALA	H	83	79.347	47.669	56.997	1.00	83.69	H
ATOM	19714	O	ALA	H	83	79.092	46.637	56.359	1.00	83.69	H
ATOM	19715	N	ALA	H	84	79.668	47.663	58.291	1.00	95.62	H
ATOM	19716	CA	ALA	H	84	79.761	46.431	59.074	1.00	95.62	H
ATOM	19717	CB	ALA	H	84	79.966	46.763	60.554	1.00	46.16	H
ATOM	19718	C	ALA	H	84	78.504	45.590	58.910	1.00	95.62	H
ATOM	19719	O	ALA	H	84	78.329	44.889	57.905	1.00	95.62	H
ATOM	19720	N	ALA	H	85	77.636	45.673	59.917	1.00	100.07	H
ATOM	19721	CA	ALA	H	85	76.373	44.946	59.925	1.00	100.07	H
ATOM	19722	CB	ALA	H	85	75.660	45.146	61.260	1.00	54.80	H
ATOM	19723	C	ALA	H	85	75.505	45.440	58.770	1.00	100.07	H
ATOM	19724	O	ALA	H	85	74.314	45.115	58.672	1.00	100.07	H
ATOM	19725	N	ALA	H	86	76.114	46.244	57.904	1.00	100.07	H
ATOM	19726	CA	ALA	H	86	75.429	46.754	56.732	1.00	100.07	H
ATOM	19727	CB	ALA	H	86	76.161	47.972	56.170	1.00	82.24	H
ATOM	19728	C	ALA	H	86	75.487	45.590	55.752	1.00	100.07	H
ATOM	19729	O	ALA	H	86	75.436	45.769	54.534	1.00	100.07	H
ATOM	19730	N	ALA	H	87	75.612	44.393	56.316	1.00	100.07	H
ATOM	19731	CA	ALA	H	87	75.673	43.158	55.552	1.00	100.07	H
ATOM	19732	CB	ALA	H	87	77.055	42.521	55.699	1.00	100.07	H
ATOM	19733	C	ALA	H	87	74.592	42.221	56.088	1.00	100.07	H
ATOM	19734	O	ALA	H	87	73.701	41.804	55.341	1.00	100.07	H
ATOM	19735	N	ALA	H	88	74.678	41.911	57.386	1.00	100.07	H
ATOM	19736	CA	ALA	H	88	73.722	41.031	58.066	1.00	100.07	H
ATOM	19737	CB	ALA	H	88	73.884	41.151	59.585	1.00	88.45	H
ATOM	19738	C	ALA	H	88	72.297	41.396	57.657	1.00	100.07	H
ATOM	19739	O	ALA	H	88	71.702	42.328	58.210	1.00	100.07	H
ATOM	19740	N	ALA	H	89	71.767	40.638	56.696	1.00	84.93	H
ATOM	19741	CA	ALA	H	89	70.434	40.850	56.142	1.00	84.93	H
ATOM	19742	CB	ALA	H	89	69.360	40.611	57.198	1.00	100.07	H
ATOM	19743	C	ALA	H	89	70.353	42.276	55.613	1.00	84.93	H
ATOM	19744	O	ALA	H	89	70.494	42.503	54.414	1.00	84.93	H
ATOM	19745	N	ALA	H	90	70.153	43.229	56.519	1.00	100.07	H
ATOM	19746	CA	ALA	H	90	70.042	44.648	56.177	1.00	100.07	H
ATOM	19747	CB	ALA	H	90	70.386	45.510	57.406	1.00	38.54	H
ATOM	19748	C	ALA	H	90	70.904	45.071	54.986	1.00	100.07	H
ATOM	19749	O	ALA	H	90	72.040	45.507	55.167	1.00	100.07	H
ATOM	19750	N	ALA	H	91	70.339	44.944	53.781	1.00	100.07	H
ATOM	19751	CA	ALA	H	91	70.989	45.301	52.511	1.00	100.07	H
ATOM	19752	CB	ALA	H	91	72.501	45.116	52.596	1.00	100.07	H
ATOM	19753	C	ALA	H	91	70.439	44.473	51.346	1.00	100.07	H
ATOM	19754	O	ALA	H	91	70.869	43.307	51.205	1.00	100.07	H
ATOM	19755	OT	ALA	H	91	69.584	44.991	50.592	1.00	100.07	H
ATOM	19756	MG+2	MG	I	1	45.365	88.876	44.194	1.00	58.09	I
ATOM	19757	ZN+2	ZN	J	1	80.834	86.397	68.754	1.00	58.09	J

END